

2022 Annual Groundwater Monitoring Report

Belle River Power Plant Bottom Ash Basins 4505 King Road China Township, Michigan

January 2023

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Executive Summary

On April 17, 2015, the United States Environmental Protection Agency (USEPA) published the final rule for the regulation and management of Coal Combustion Residuals (CCR) under the Resource Conservation and Recovery Act (RCRA) (the CCR Rule), as amended. The CCR Rule, which became effective on October 19, 2015 (with amendments in 2018 and 2020), applies to the DTE Electric Company (DTE Electric) Belle River Power Plant (BRPP) Bottom Ash Basins (BABs) 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 2022 activities at the BRPP BABs CCR unit.

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

No new SSIs were observed through the 2022 monitoring period. Potential SSIs over prediction limits were noted for several Appendix III constituents in one or more monitoring wells during the April and October 2022 monitoring events. These potential SSIs were either not statistically significant (i.e. verification resampling did not confirm the exceedance) or were evaluated and determined to be a result of natural variability in groundwater quality as documented in alternate source demonstrations (ASDs) and not attributable to the BRPP BABs CCR unit. Therefore, detection monitoring will be continued at the BRPP BABs CCR unit in accordance with §257.94.



1.0 Introduction

1.1 Program Summary

On April 17, 2015, the United States Environmental Protection Agency (USEPA) published the final rule for the regulation and management of Coal Combustion Residuals (CCR) under the Resource Conservation and Recovery Act (RCRA) (the CCR Rule), as amended. The CCR Rule, which became effective on October 19, 2015 (with amendments in 2018 and 2020), applies to the DTE Electric Company (DTE Electric) Belle River Power Plant (BRPP) Bottom Ash Basins (BABs) 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 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 2022 activities at the BRPP BABs CCR unit (2022 Annual Report).

This 2022 Annual Report presents the monitoring results and the statistical evaluation of the detection monitoring parameters (Appendix III to Part 257 of the CCR Rule) for the April and October 2022 semiannual groundwater monitoring events for the BRPP BABs CCR unit in addition to the alternative source demonstration for the second 2021 semiannual detection monitoring event (Appendix A). Detection monitoring for these events continued to be performed in accordance with the *CCR Groundwater Monitoring and Quality Assurance Project Plan – DTE Electric Company Belle River Power Plant Bottom Ash Basins and Diversion Basin* (QAPP) (TRC, July 2016; revised August 2017) and statistically evaluated per the Stats Plan (TRC, October 2017). As part of the statistical evaluation, the data collected during detection monitoring events are evaluated to identify SSIs of detection monitoring parameters compared to background levels.

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

1.2 Site Overview

The BRPP is located in Section 13, Township 4 North, Range 16 East, at 4505 King Road, China Township in St. Clair County, Michigan. The BRPP was constructed in the early 1980s with plant operations beginning in 1984. Prior to Detroit Edison Company's operations commencing in the 1980s, the BRPP property was generally wooded and farmland. The property has been used continuously as a coal fired power plant since Detroit Edison Company (now DTE Electric) began power plant operations at BRPP in 1984 and is generally constructed over a natural clay-rich soil base. The BABs have been in use by the BRPP since



it began operation and have collected CCR bottom ash that is periodically cleaned out and either sold for beneficial reuse or disposed of at the Range Road Landfill (RRLF).

The BRPP BABs are two adjacent physical sedimentation basins that are slightly raised CCR surface impoundments referred to as the North and South BABs, located north of the BRPP. These are considered one CCR unit. The BABs receive sluiced bottom ash and other process flow water from the power plant. Discharge water from each BAB flows over an outlet weir that gravity flows to a site storm water conveyance network of ditches and pipes, then flows into the diversion basin (DB) CCR unit, which is monitored as a separate CCR unit in accordance with the CCR Rule and addressed in a separate 2022 Annual Report.

The DB is an incised CCR surface impoundment located east of the BRPP. Water flows into the DB from the North and South BABs through a network of pipes and ditches. The DB discharges to the St. Clair River with other site wastewater in accordance with a National Pollution Discharge Elimination System (NPDES) permit.

1.3 Geology/Hydrogeology

The BRPP BABs CCR unit is located approximately one mile west of the St. Clair River. The BRPP BABs CCR unit is underlain by more than 100 feet of unconsolidated sediments, with the lower confining Bedford Shale generally encountered from 140 to 150 feet below ground surface (bgs). In general, the BRPP BABs CCR unit is initially underlain by at least 90 to as much as 130 feet of laterally extensive low hydraulic conductivity silty clay-rich deposits (TRC, 2017 and Geosyntec, 2021). The depth to the top of the confined sand-rich uppermost aquifer encountered immediately beneath the silty clay-rich deposits varies up to 50 feet within the monitoring well network and rapidly thins to the south and east of the BABs and pinches out (i.e., no longer present) to the southeast in the vicinity of SB-16-01 (Figure 1). Consequently, the uppermost aquifer is not laterally contiguous across the entire BRPP BABs CCR unit, and not present beneath the southeastern corner of the BABs.

The variability in the depth to the uppermost aquifer is a consequence of the heterogeneity of the glacial deposits and is driven by the lateral discontinuity of the sand outwash within the encapsulating fine-grained, silty clay till that confines the uppermost aquifer. There is an apparent lack of interconnection and/or significant vertical variation between the uppermost aquifer sand unit(s) encountered across the BRPP BABs CCR unit as demonstrated by the extensive amount of time (months) it took for water levels in monitoring well MW-16-02 to reach equilibrium after well construction and development (TRC, 2017).

Given the horizontally expansive clay with substantial vertical thickness that isolates the uppermost aquifer from the BRPP BABs CCR unit, the heterogeneity of the glacial deposits (with the top of the uppermost aquifer elevation across the BABs, where present varying up to 46 feet vertically), the no flow boundary where no sand or gravel is present in the southeastern portion of the BABs CCR unit area, and the apparent lack of hydraulic interconnectedness of the uppermost aquifer encountered at the BABs in some areas, it is not appropriate to infer horizontal flow direction or gradients across the BRPP BABs CCR unit.



2.0 Groundwater Monitoring

2.1 Monitoring Well Network

A groundwater monitoring system has been established for the BRPP BABs CCR unit as detailed in the Groundwater Monitoring System Summary Report – DTE Electric Company Belle River Power Plant Bottom Ash Basins and Diversion Basin Coal Combustion Residual Units (GWMS Report) (TRC, October 2017). The detection monitoring well network for the BABs CCR unit currently consists of five monitoring wells that are screened in the uppermost aquifer. Monitoring wells MW-16-01 through MW-16-04 and MW-16-09 are located around the north, east and south perimeter of the BABs and provide data on both background and downgradient groundwater quality that has not been affected by the CCR unit (total of five background/downgradient monitoring wells). The monitoring well locations are shown on Figure 2.

2.2 Semiannual Groundwater Monitoring

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

2.2.1 Data Summary

The first semiannual detection monitoring event for 2022 was performed on April 7, 2022 by TRC personnel and samples were analyzed by Eurofins Environment Testing America (Eurofins) in accordance with the QAPP. Static water elevation data were collected at all five monitoring well locations. Groundwater samples were collected from the five detection monitoring wells for the Appendix III indicator parameters and field parameters. A summary of the groundwater data collected during the April 2022 event is provided on Table 1 (static groundwater elevation data), Table 2 (field data), and Table 3 (analytical results).

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

2.2.3 Groundwater Flow Rate and Direction

As presented in the GWMS Report, and mentioned above, given the horizontally expansive clay with substantial vertical thickness that isolates the uppermost aquifer from the BRPP BABs CCR unit; the heterogeneity of the glacial deposits (with the top of the uppermost aquifer elevation across the BABs; where present, varying up to 46 feet vertically); the no flow boundary where no sand or gravel is present in the southeastern portion of the BRPP BABs CCR unit area; and the apparent lack of hydraulic interconnectedness of the uppermost aquifer encountered at the BABs in some areas, it is not appropriate to infer horizontal flow direction or gradients across the site. Groundwater elevations measured across the Site during the April 2022 sampling event are provided on Table 1 and are summarized in plan view on Figure 3. Groundwater elevations measured across the Site during the October 2022 sampling event are provided on Table 1 and are summarized in plan view on Figure 4.

Groundwater elevation data collected during the 2022 sampling events show that groundwater conditions within the uppermost aquifer are consistent with previous monitoring events and continue to demonstrate that the monitoring wells are appropriately positioned to detect the presence of Appendix III parameters that could potentially migrate from the BRPP BABs CCR unit.



3.0 Statistical Evaluation

3.1 Establishing Background Limits

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

Per the Stats Plan, background limits were established for the Appendix III indicator parameters following the collection of at least eight background monitoring events using data collected from each of the five established detection monitoring wells (MW-16-01 through MW-16-04 and MW-16-09). 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 BRPP BABs CCR unit by comparing concentrations in the detection monitoring wells to their respective background limits for each Appendix III indicator parameter.

Prediction limits are periodically updated to reflect the additional data and additional temporal variability observed over time. The Appendix III prediction limits for the BRPP BAB were updated 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, Belle River Power Plant Bottom Ash Basin* (included as Appendix C in the 2021 *Annual Groundwater Monitoring Report – DTE Electric Company, Belle River Power Plant Bottom Residual Unit,* TRC, January 2022).

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

The concentrations of the indicator parameters in each of the detection monitoring wells (MW-16-01 through MW-16-04 and MW-16-09) were compared to their respective statistical background limits calculated from the background data collected from each individual well (i.e., monitoring data from MW-16-01 is compared to the background limit developed using the background dataset from MW-16-01, and so forth).

The comparisons of the April 2022 monitoring event data to background limits are presented on Table 3. The statistical evaluation of the April 2022 Appendix III indicator parameters showed potential initial SSIs over background for:

- Calcium at MW-16-01; and
- Sulfate at MW-16-02.



The sulfate exceedance at MW-16-01 during the first semiannual event in April 2022 has previously been demonstrated to be from natural variability and is not from a release from the CCR unit as presented in the still applicable August 2021 ASD that was included in the 2021 Annual Report. Similarly, the calcium exceedance at MW-16-09 during the first semiannual event in April 2022 has previously been demonstrated to be from natural variability and is not from a release from the CCR unit as presented in the still applicable August 2021 ASD that was included in the 2021 Annual Report. Similarly, the calcium exceedance at MW-16-09 during the first semiannual event in April 2022 has previously been demonstrated to be from natural variability and is not from a release from the CCR unit as presented in the still applicable February 2022 ASD that is included as Appendix A.

3.3 Verification Resampling for the First Semiannual Event

Verification resampling is performed per the Stats Plan and the USEPA's Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance (Unified Guidance, USEPA, 2009) to achieve performance standards as specified by §257.93(g) in the CCR Rule. Per the Stats Plan, if there is an exceedance of a prediction limit for one or more of the parameters, the well(s) of concern will be resampled within 30 days of the completion of the initial statistical analysis. Only constituents that initially exceed their statistical limit (i.e., have no previously recorded SSIs) will be analyzed for verification purposes.

Verification resampling for the April 2022 event was conducted on May 9, 2022 by TRC personnel. Groundwater samples were collected for calcium at MW-16-01 and sulfate at MW-16-02, in accordance with the QAPP. A summary of the analytical results collected during the resampling event is provided on Table 3. The associated data quality review is included in Appendix C.

The verification results for calcium at MW-16-01 and sulfate at MW-16-02 are below their respective prediction limits. Therefore, in accordance with the Stats Plan and the Unified Guidance, the initial exceedances are not statistically significant, and no SSIs will be recorded for the April 2022 detection monitoring event.

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

The concentrations of the indicator parameters in each of the detection monitoring wells (MW-16-01 through MW-16-04 and MW-16-09) were compared to their respective statistical background limits calculated from the background data collected from each individual well (i.e., monitoring data from MW-16-01 is compared to the background limit developed using the background dataset from MW-16-01, and so forth).

The comparisons of the October 2022 monitoring event are presented on Table 4. The statistical evaluation of the October 2022 Appendix III indicator parameters showed a potential initial SSI over background for:

Sulfate at MW-16-02

The sulfate exceedance at MW-16-01 during the Second Semiannual Event in October 2022 has previously been demonstrated to be from natural variability and is not from a release from the CCR unit as presented in the still applicable August 2021 ASD that was included in the 2021 Annual Report. The calcium exceedance at MW-16-09 has previously been demonstrated to be



from natural variability and is not from a release from the CCR unit as presented in the still applicable February 2022 ASD that is included in this report (Appendix A).

3.5 Verification Resampling for the Second Semiannual Event

Verification resampling for the October 2022 event was conducted on December 1, 2022 by TRC personnel. A groundwater sample was collected for sulfate at MW-16-02 in accordance with the QAPP. A summary of the analytical results collected during the resampling event is provided on Table 4. The associated data quality review is included in Appendix B.

The verification sampling result for sulfate at MW-16-02 is below the prediction limit. Therefore, in accordance with the Stats Plan and the Unified Guidance, the original exceedance is not statistically significant, and no SSI will be recorded for the October 2022 detection monitoring sampling event.



4.0 Conclusions and Recommendations

No SSIs over prediction limits were recorded for the Appendix III constituents in the downgradient wells during the 2022 monitoring period. Therefore, detection monitoring will be continued at the BRPP BABs CCR unit in accordance with §257.94. As discussed above and in the GWMS Report as well as the PALD, with the laterally contiguous clay with substantial vertical thickness that isolates the uppermost aquifer from the BRPP BABs CCR unit there is no reasonable probability for the uppermost aquifer to be affected by CCR from BRPP operations.

No corrective actions were performed in 2022. The next semiannual monitoring event is scheduled for the second calendar quarter of 2023.



5.0 Groundwater Monitoring Report Certification

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

Annual Groundwater Monitoring Report Certification Belle River Power Plant Bottom Ash Basins China Township, Michigan

CERTIFICATION

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

Name:	Expiration Date:	TE OF MICH
David B. McKenzie, P.E.	December 17, 2023	DAVID B MCKENZIE ENGINEER
Company:	Date:	6201042332
TRC Engineers Michigan, Inc.	January 31, 2023	POFESSIONAL EMPL
		131/23



6.0 References

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



Tables

Table 1 Summary of Groundwater Elevation Data – April and October 2022 Belle River Power Plant Bottom Ash Basins – RCRA CCR Monitoring Program China Township, Michigan

Well ID MW-16-01			MW-16-02		MW-16-03		MW-	16-04	MW-16-09	
Date Installed	Date Installed 3/17/2016		3/15/2016		6/1/2016		3/8/2016		6/2/2016	
TOC Elevation	590	0.06	588.94		590.66		590.51		590.80	
Geologic Unit of Screened Interval	Geologic Unit of Sand Screened Interval		Sand		Silty Sand		Sand		Sand	
Screened Interval Elevation	496.3 to 491.3		494.3 to 489.3		456.0 to 451.0		468.5 to 463.5		452.3 to 447.3	
Unit	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft	ft BTOC	ft
Measurement Date	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation	Depth to Water	GW Elevation
04/07/2022	15.46	574.60	13.00	575.94	15.74	574.92	16.10	574.41	15.96	574.84
10/12/2022	16.00	574.06	13.78	575.16	16.18	574.48	16.70	573.81	16.58	574.22

Notes:

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

ft BTOC - feet Below top of casing.

Table 2Summary of Field Data – April to December 2022Belle River Power Plant Bottom Ash Basins – RCRA CCR Monitoring Program
China Township, Michigan

Sample Location	Sample Date	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Specific Conductivity (umhos/cm)	Temperature (deg C)	Turbidity (NTU)
	4/7/2022	3.31	-167.1	7.6	1,467	11.4	2.42
MW-16-01	5/9/2022 ⁽¹⁾	1.25	-109.1	7.6	1,408	11.6	1.81
	10/12/2022	0.34	-126.0	7.4	1,761	13.2	4.50
	4/7/2022	0.89	-258.5	7.6	1,489	10.9	5.75
MW 16 02	5/9/2022 ⁽¹⁾	1.25	-76.2	7.4	1,146	13.3	3.89
10100-10-02	10/12/2022	0.51	-100.3	7.3	1,384	13.2	3.50
	12/1/2022 ⁽²⁾	0.01	-200.4	7.5	992	9.0	3.53
MW 16 02	4/7/2022	0.76	-291.0	7.8	2,134	11.2	3.55
10100-10-03	10/12/2022	1.22	-69.00	7.8	2,000	14.9	3.20
MW 16 04	4/7/2022	1.05	-220.2	7.8	1,506	11.3	4.16
10100-10-04	10/12/2022	0.37	-149.8	7.6	1,814	16.9	10.0
MW 16.00	4/7/2022	0.93	-236.1	7.8	2,614	11.3	51.2
10100-009	10/12/2022	0.88	-150.1	7.7	3,164	13.4	184

Notes:

mg/L - milligrams per liter.

mV - milliVolt.

SU - standard unit.

umhos/cm - micro-mhos per centimeter.

deg C - degrees celcius.

NTU - nephelometric turbidity units.

(1) Results shown for verification sampling performed on 5/9/2022.

(2) Results shown for verification sampling performed on 12/1/2022.

Table 3 Comparison of Appendix III Parameter Results to Background Limits – April and May 2022 Belle River Power Plant BABs – RCRA CCR Monitoring Program China Township, Michigan

Sa	ample Location:	MW-16-01				MW-16-02			MW-16-03		MW-16-04		MW-16-09	
Sample Date:		4/7/2022	5/9/2022 ⁽¹⁾	PI	4/7/2022	5/9/2022 ⁽¹⁾	PI	4/7/2022		4/7/2022	DI	4/7/2022	DI	
Constituent	Unit	Da	ata	16	Da	Data		Data		Data		Data	16	
Appendix III														
Boron	ug/L	1,100		1,300	1,200		1,300	1,200	1,200	1,100	1,200	1,500	1,900	
Calcium	ug/L	49,000	40,000	44,000	56,000		58,000	35,000	35,000	46,000	60,000	90,000 ⁽²⁾	42,000	
Chloride	mg/L	440		510	350		390	580	800	460	520	1,000	1,100	
Fluoride	mg/L	1.5		1.9	1.1		1.3	1.7	1.9	1.6	1.8	1.4	1.7	
pH, Field	su	7.6		7.0 - 8.1	7.6		7.3 - 8.0	7.8	7.5 - 8.2	7.8	7.6 - 8.2	7.8	7.7 - 8.6	
Sulfate	mg/L	60 ⁽³⁾		14	21	14	15	< 1.0	5.9	32	36	13	37	
Total Dissolved Solic	ls mg/L	860		970	710		910	980	1,100	950	1,100	1,700	2,000	

Notes:

ug/L - micrograms per liter.

mg/L - milligrams per liter.

SU - standard units; pH is a field parameter.

-- = not analyzed

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 5/9/2022.

(2) - Exceedance was determined to be from an alternate source in the Second 2021 Semiannual alternative source demonstration dated 2/24/2022.

(3) - Exceedance was determined to be from an alternate source in the First 2021 Semiannual alternative source demonstration dated 8/16/2021.

Table 4 Comparison of Appendix III Parameter Results to Background Limits – October and December 2022 Belle River Power Plant BABs – RCRA CCR Monitoring Program China Township, Michigan

S	ample Location:	MW-1	6-01		MW-16-02		MW-1	16-03	MW-1	MW-16-04		
	Sample Date:	10/12/2022	Ы	10/12/2022	12/1/2022 ⁽¹⁾	Ы	10/12/2022	Ы	10/12/2022	DI	10/12/2022	
Constituent	Unit	Data	FL	Da	Data		Data	Data PL		Data		
Appendix III												
Boron	ug/L	950	1,300	1,100		1,300	1,000	1,200	1,000	1,200	1,400	
Calcium	ug/L	43,000	44,000	57,000		58,000	33,000	35,000	42,000	60,000	57,000 ⁽²⁾	
Chloride	mg/L	450	510	350		390	570	800	480	520	950	
Fluoride	mg/L	1.6	1.9	1.1		1.3	1.7	1.9	1.6	1.8	1.4	
pH, Field	su	7.4	7.0 - 8.1	7.3		7.0 - 8.0	7.8	7.5 - 8.2	7.6	7.6 - 8.2	7.7	
Sulfate	mg/L	35 ⁽³⁾	14	17	15	15	< 1	5.9	26	36	13	
Total Dissolved Solid	ds mg/L	880	970	720		910	1,100	1,100	970	1,100	1,600	

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 12/1/2022.

(2) - Exceedance was determined to be from an alternate source in the Second 2021 Semiannual alternative source demonstration dated 2/24/2022.

(3) - Exceedance was determined to be from an alternate source in the First 2021 Semiannual alternative source demonstration dated 8/16/2021.

N-'	16-09
2	PL
	1,900
	42,000
	1,100
	1.7
	7.7 - 8.6
	37
	2,000



Figures



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LEGEND



SOIL BORING

MONITORING WELL

DECOMMISSIONED MONITORING WELL

GROUNDWATER ELEVATION (DATE)

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

<u>NOTES</u>

- 1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO, (3/23/2019).
- 2. WELL LOCATIONS SURVEYED IN MARCH, APRIL AND JUNE 2016 AND JUNE 2017 BY BMJ ENGINEERS & SURVEYORS, INC.
- 3. NO SAND OR GRAVEL UNIT PRESENT ABOVE BEDROCK IN THIS LOCATION.









SOIL BORING

MONITORING WELL

DECOMMISSIONED MONITORING WELL

MW ID

GROUNDWATER ELEVATION (DATE)

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

NOTES

- 1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO, (3/23/2019).
- 2. WELL LOCATIONS SURVEYED IN MARCH, APRIL AND JUNE 2016 AND JUNE 2017 BY BMJ ENGINEERS & SURVEYORS, INC.
- 3. NO SAND OR GRAVEL UNIT PRESENT ABOVE BEDROCK IN THIS LOCATION.





Appendix A Alternate Source Demonstration, Second Semiannual 2021 Groundwater Sampling Event



February 24, 2022

Mary R. Carnagie Materials Management Division Michigan Department of Environment, Great Lakes, and Energy 27700 Donald Court Warren, MI 48092-2793

Subject: Alternate Source Demonstration, Second Semiannual 2021 Groundwater Sampling Event Belle River Power Plant Bottom Ash Basins Coal Combustion Residual Unit 4505 King Road, China Township, Michigan

Dear Ms. Carnagie:

TRC was retained by DTE Electric Company (DTE Electric) to conduct routine groundwater monitoring activities at the Belle River Power Plant (BRPP) CCR Bottom Ash Basins (BABs) coal combustion residual (CCR) unit (the Site), located in St Clair County, Michigan. Routine groundwater monitoring at the BRPP BABs CCR unit is conducted in accordance with the Michigan Department of Environment, Great Lakes, and Energy (EGLE) approved *Hydrogeological Monitoring Plan* for the Site (BRPP BABs and DB HMP) (TRC, August 26, 2020; Revised December 8, 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).

The statistical evaluation of the October 2021 detection monitoring indicator parameters indicated potential statistically significant increases (SSIs) for calcium at MW-16-09 (44 milligrams per liter (mg/L) with a prediction limit (PL) of 42 mg/L). Verification resampling for the October 2021 event was conducted on December 6, 2021 by TRC personnel. The verification result for calcium at MW-16-09 (45 mg/L) was above the PL (42 mg/L); therefore, the initial SSI for calcium at MW-16-09 is confirmed (Table 1).

In accordance with §257.94(e)(2) and the BRPP BABs and DB HMP, DTE Electric may demonstrate that a source other than the CCR unit caused the SSI or that the SSI resulted from an error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. This Alternate Source Demonstration (ASD) has been prepared to address the potential SSI for Calcium at MW-16-09 identified in the October 2021 detection monitoring event and demonstrates that the calcium SSI is not due to a release of CCR leachate into the groundwater.

Background

The BRPP is located in China Township in St. Clair County, Michigan. The site location is shown in Figure 1. The BRPP was constructed in the early 1980s with plant operations beginning in 1984. The property has been used continuously as a coal fired power plant since Detroit Edison Company (now DTE Electric) began power plant operations and is constructed over a natural clay rich soil base. The



BABs have been in use with the BRPP since it began operation and have collected CCR bottom ash that is periodically cleaned out and either sold for beneficial reuse or disposed of at the Range Road Landfill (RRLF).

The BRPP BABs are two adjacent physical sedimentation basins that are slightly raised CCR surface impoundments referred to as the North and South BABs, located north of the BRPP. These are considered one CCR unit. The BABs receive sluiced bottom ash and other process flow water from the power plant. Discharge water from each BAB gravity flows over an outlet weir to a conveyance network of ditches and pipes, then flows into the diversion basin (DB) CCR unit, which is monitored as a separate CCR unit in accordance with the CCR Rule.

The BRPP BABs CCR unit is located approximately one-mile west of the St. Clair River. The BRPP BABs CCR unit is underlain by more than 100 feet of unconsolidated sediments, with the lower confining Bedford Shale generally encountered at 140 to 150 feet below ground surface (bgs). In general, the BRPP BABs CCR unit is initially underlain by at least 90 to as much as 130 feet of laterally extensive low hydraulic conductivity silty clay-rich deposits as demonstrated during the monitoring well network installation and the subsequent alternative liner demonstration investigation (TRC, 2017 and Geosyntec, 2021). The depth to the top of the confined sand-rich uppermost aquifer encountered immediately beneath the silty clay-rich deposits varies up to 50 feet within the monitoring well network and rapidly thins to the south and east of the BABs and pinches out (e.g., no longer present) to the southeast (Figure 2). Consequently, the uppermost aquifer is not laterally contiguous across the entire BRPP BABs CCR unit and is not present in the southeastern corner of the BABs.

Given the horizontally expansive clay with substantial vertical thickness that isolates the uppermost aquifer from the BRPP BABs CCR unit, the heterogeneity of the glacial deposits (with the top of the uppermost aquifer elevation across the BABs, where present, varying up to 50 feet vertically), the no flow boundary where no sand or gravel is present in the southeastern portion of the BABs CCR unit area, and the apparent lack of hydraulic interconnectedness of the uppermost aquifer encountered at the BABs in some areas, it is not appropriate to infer horizontal flow direction or gradients across the BRPP BABs CCR unit.

The detection monitoring well network for the BABs CCR unit currently consists of five monitoring wells that are screened in the uppermost aquifer. As discussed in the Stats Plan, intrawell statistical methods for the BABs CCR unit were selected based on the geology and hydrogeology at the Site (primarily the presence of clay/hydraulic barrier, the variability in the presence of the uppermost aquifer across the site, and presence of no flow boundary on the southeast side of the aquifer), in addition to other supporting lines of evidence that the aquifer is unaffected by the CCR unit (such as the consistency in concentrations of water quality data). Monitoring wells MW-16-01 through MW-16-04 and MW-16-09 are located around the north, east and south perimeter of the BABs and provide data on both background and downgradient groundwater quality that has not been affected by the CCR unit (total of five background/downgradient monitoring wells). The monitoring well locations are shown in Figure 2. The *Groundwater Monitoring System Summary Report – DTE Electric Company Belle River Power Plant Bottom Ash Basins and Diversion Basin Coal Combustion Residual Units* (TRC, October 2017, Revised December 2020a) (Appendix A of the BRPP BABs and DB HMP) details the



groundwater monitoring system and the geology/ hydrogeology.

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. Per the Stats Plan, if there is an exceedance of a prediction limit for one or more of the parameters, the well(s) of concern will be resampled within 30 days of the completion of the initial statistical analysis. Only constituents that initially exceeded their statistical limit (i.e., have no previously recorded SSIs) were analyzed for verification purposes. As such, verification resampling was conducted on December 6, 2022 by TRC personnel. A groundwater sample was collected for calcium at monitoring well MW-16-09 in accordance with the *CCR Groundwater Monitoring and Quality Assurance Project Plan – DTE Electric Company Belle River Power Plant Bottom Ash Basins and Diversion Basin* (QAPP) (TRC, July 2016; revised August 2017 and December 2020). A summary of the groundwater data collected during the verification resampling event is provided on Table 1.

The verification resampling confirmed the calcium exceedance at MW-16-09 (45 mg/L with a PL of 42 mg/L). The following discussion presents the ASD for the confirmed prediction limit exceedance for calcium at MW-16-09.

Calcium at MW-16-09: The calcium concentrations at MW-16-09, shown graphically as data points greater than the prediction limit in Figure 3A, are the result of natural variability in groundwater quality at the site as seen in natural variability of calcium concentrations seen throughout the BRPP CCR unit (Figure 3B) and not the result of a release from the BRPP BABs CCR unit. Multiple lines of evidence are provided in support of this conclusion and are as follows:

- Time of travel analysis The clay formation immediately beneath the BRPP BABs CCR unit provides a natural geologic barrier to migration of CCR constituents to the underlying aquifer. The vertical extent of the clay layer beneath the CCR unit is shown in Figures 5 through 8 as cross-sections. Figure 4 shows the cross-section locations in plan view. Conservatively calculating a time of travel for liquid from the base of the BRPP BABs CCR unit through a minimum of 90 feet of clay, to the underlying upper aquifer, yields greater than 1,300 years of travel time (Geosyntec, 2021; TRC, October 2017; Revised December 2020a). The BRPP BABs CCR unit began accepting coal ash in approximately 1984, so, based on this analysis, there is no potential for indicator parameters to have migrated to the upper aquifer.
- Spatial variability in groundwater quality The prediction limits for calcium calculated for each of the CCR monitoring wells at the Belle River Power Plant site range from 35 mg/L to 91 mg/L and . This variability in groundwater quality across the site as presented in Figure 3B, shows that the calcium concentrations vary spatially throughout the uppermost aquifer and shows the confirmed calcium SSI at MW-16-09 (based on detections of 44 mg/L and 45 mg/L, respectively), is attributable to spatial variability rather than the CCR unit.
- Insufficient background sampling timeline to account for long-term trends Temporal variability in calcium concentrations observed in the groundwater at BRPP during the background sampling events provides evidence of the heterogeneity of this constituent in groundwater (Figures 3A and 3B). The relatively short duration of the background sampling events limits the ability of the statistical analysis to capture the natural long-term temporal trends in the groundwater quality at



BRPP. In addition, the October (44 mg/L) and December (45 mg/L) 2021 groundwater samples had calcium detected at concentrations that were only slightly above the MW-16-09 PL of 42 mg/L.

 Lack of similar increase in other indicator parameters – The lack of SSIs for any other parameters within the same monitoring well and across the other wells within the monitoring well network during this event also suggests a source other than CCR leachate for the observed calcium SSI at this location.

Conclusions and Recommendations

The information provided in this report serves as the ASD for the DTE Electric BRPP BABs CCR unit, was prepared in accordance with 40 CFR 257.94(e)(2) of the CCR Rule and the BRPP BABs and DB HMP demonstrates that the calcium SSI determined based on the second semiannual detection monitoring event performed in 2021 is due to the natural variability of background groundwater quality. Therefore, based on the information provided in this ASD, DTE Electric will continue detection monitoring as per 40 CFR 257.94 and the BRPP BABs and DB HMP at the BRPP BABs CCR unit.

Signatures and Certifications

Engineer Certification Statement

I hereby certify that the alternative source demonstration presented within this document for the BRPP BAB CCR unit has been prepared to meet the requirements of Title 40 CFR §257.94(e)(2) of the Federal CCR Rule and the December 8, 2020 *Hydrogeological Monitoring Plan for the DTE Electric Company Belle River Power Plant Bottom Ash Basins and Diversion Basin Coal Combustion Residual Units* (HMP). This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR §257.94(e)(2) and the HMP.

Name: David B. McKenzie, P.E.	Expiration Date: December 17, 2023	DAVID B MCKENZIE KNGINEER
Company: TRC Engineers Michigan, Inc.	Date:	No. 6201042332
	February 24, 2022	Stamp



mm

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

Sincerely,

TRC

Vment E. Biremuny

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

Saul & Holmston

Sarah B. Holmstrom, P.G Senior Hydrogeologist

Attachments

- Table 1
 Comparison of Groundwater Detection Parameter Results to Background Limits Fourth Quarter 2021
- Figure 1 Site Location Map
- Figure 2 Site Plan
- Figure 3A MW-16-09 Calcium Time Series Plot
- Figure 3B Calcium Time Series Plot
- Figure 4 Cross Section Locator Map
- Figure 5 Generalized Geologic Cross Section A-A'
- Figure 6 Generalized Geologic Cross Section B-B'
- Figure 7 Generalized Geologic Cross Section C-C'
- Figure 8 Generalized Geologic Cross Section D-D'
- Appendix A References
- cc: Christopher P. Scieszka, DTE Electric Company



Table



Table 1 Comparison of Appendix III Parameter Results to Background Limits – Fourth Quarter 2021 Belle River Power Plant BABs – RCRA CCR Monitoring Program China Township, Michigan

	Sample Location:	MW-	16-01	MW-	16-02	MW-	16-03	MW-	16-04		MW-16-09		
	Sample Date:	10/12/2021	D L (1)	10/12/2021	DI ⁽¹⁾	10/12/2021	DI ⁽¹⁾	10/13/2021	D L (1)	10/12/2021	12/6/2021	DI (1)	
Constituent	Unit	Data	PL ⁽¹⁾	Data	PL ⁽⁷⁾	Data	PL ⁽⁷⁾	Data	PL''	Di	ata	PL	
Appendix III													
Boron	ug/L	1,100	1,300	1,200	1,300	1,000	1,200	990	1,200	1,500		1,900	
Calcium	ug/L	43,000	44,000	56,000	58,000	31,000	35,000	46,000	60,000	44,000	45,000	42,000	
Chloride	mg/L	460	510	360	390	580	800	490	520	970		1,100	
Fluoride	mg/L	1.7	1.9	1.2	1.3	1.8	1.9	1.7	1.8	1.5		1.7	
pH, Field	SU	7.6	7.0 - 8.1	7.6	7.3 - 8.0	7.6	7.5 - 8.2	7.6	7.6 - 8.2	7.8	7.7	7.7 - 8.6	
Sulfate	mg/L	25 ⁽²⁾	14	5.1	15	1.7	5.9	28	36	13		37	
Total Dissolved Solid	s mg/L	1,000 ⁽³⁾	970	720	910	1,100	1,100	1,100	1,100	1,700		2,000	
Part 115 Parameters	6												
Iron	ug/L	1,100	n<8	1,100	n<8	860	n<8	1,900	n<8	12,000		n<8	

Notes:

ug/L - micrograms per liter.

mg/L - milligrams per liter.

SU - standard units; pH is a field parameter.

All metals were analyzed as total unless otherwise specified.

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

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

(1) - Prediction limits updated December 15, 2021.

(2) - Concentration addressed through First 2021 Semiannual alternative source demonstration dated 8/16/2021.

(3) - Concentration addressed through First 2019 Semiannual alternative source demonstration dated 8/8/2019.

Figures





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Figure 3A MW-16-09 Calcium Time Series (ug/L)


Figure 3B Calcium Time Series (ug/L)



(Foot) nt eet FIPS 2113 Coor

NSI B(11"x17") Da Plot



APPROVED BY: V. BUENING DATE: DECEMBER 202	NG FIGURE 4
APPROVED BY: V. BUENING	FIGURE 4
	-
CHECKED BY: K. CRATSENBURG	RG
DRAWN BY: A. ADAIR	AIR PROJ NO.: 370029.000

370029-0003-003.mxd







Lithology Key





DTE ELECTRIC COMPANY BELLE RIVER POWER PLANT CHINA TOWNSHIP, MICHIGAN

TITLE:

SOJEC.

GENERALIZED GEOLOGIC CROSS-SECTION A-A'

DRAWN BY:	D.STEHLE	PROJ NO.:	370029.0003.01.01
CHECKED BY:	S.HOLMSTROM		
APPROVED BY:	V.BUENING		FIGURE 5
DATE:	JULY 2020		
	TRC	•	1540 Eisenhower Place Ann Arbor, MI 48108 Phone: 734.971.7080 www.trccompanies.com
FILE NO :			370029.0003.01.01.04-05.dwg



XS DD v XS 11x17 --- ATTACHED XREFS: ---- ATTACHED IMAGES: DTE BRPP XSs XXXXXXXX.02172017092213_Page_1; DTE BRPP XSs XXXXXXX.02172017092213_Page_2; XS aa DRAWING NAME: J:_TRCIDTE\Belle River PP\370029\0003\01\01_2020 HMP\ 370029.0003.01.01.04-05.dwg--- PLOT DATE: July 28, 2020 - 6:55AM --- LAYOUT: FIG05 XS BB

GENERALIZED GEOLOGIC CROSS-SECTION C-C'





Lithology Key





- 20

GEOLOGIC CROSS-SECTION C-C'

DRAWN BY:	D.STEHLE	PROJ NO.:	370029.0003.01.01
CHECKED BY:	K.CRATSENBURG		
APPROVED BY:	K.CRATSENBURG		FIGURE 7
DATE:	NOVEMBER 2020		
$\mathbf{\mathbf{\dot{b}}}$	TRC		1540 Eisenhower Place Ann Arbor, MI 48108 Phone: 734.971.7080 www.trccompanies.com

FILE NO.:

ROJEC

TITLE:

370029.0003.01.01.06.dwg



Appendix A References



- Geosyntec Consultants (Geosyntec). November 2021. Preliminary Alternative Liner Demonstration Bottom Ash Basins, DTE Electric Company Belle River Power Plant, China Township, Michigan.
- TRC. July 2016; Revised March and August 2017 and December 2020. CCR Groundwater Monitoring and Quality Assurance Project Plan – DTE Electric Company Belle River Power Plant Bottom Ash Basins and Diversion Basin, 4505 King Road, China Township, Michigan. Prepared for DTE Electric Company.
- TRC. October 2017; Revised December 2020a. Groundwater Monitoring System Summary Report DTE Electric Company Belle River Power Plant Bottom Ash Basins and Diversion Basin Coal Combustion Residual Units, 4505 King Road, China Township, Michigan. Prepared for DTE Electric Company.
- TRC. October 2017; Revised December 2020b. Groundwater Statistical Evaluation Plan DTE Electric Company Belle River Power Plant Coal Combustion Residual Bottom Ash Basins, 4505 King Road, China Township, Michigan. Prepared for DTE Electric Company.
- TRC. August 26, 2020; Revised December 8, 2020. Hydrogeological Monitoring Plan for the DTE Electric Company Belle River Power Plant Bottom Ash Basins and Diversion Basin Coal Combustion Residual Units, 4505 King Road, China Township, Michigan. Prepared for DTE Electric Company.
- TRC. July 2021. First Semiannual 2021 Groundwater Monitoring Report prepared for the DTE Electric Company Belle River Power Plant Bottom Ash Basins Coal Combustion Residual Units, 4505 King Road, China Township, 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.
- 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 Reports

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-164920-1

Client Project/Site: CCR DTE Belle River Power

For:

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

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

Attn: Mr. Vincent Buening

Meara atric

Authorized for release by: 4/24/2022 12:56:54 PM Patrick O'Meara, Manager of Project Management (330)966-5725 Patrick.O'Meara@et.eurofinsus.com

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

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

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

Table of Contents

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Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	11
QC Sample Results	25
QC Association Summary	29
Lab Chronicle	32
Certification Summary	36
Chain of Custody	37

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Qualifiers

Qualifiers		3
Metals		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
General Che	Mistry Qualifier Description	5
U	Indicates the analyte was analyzed for but not detected.	6
Glossary		
Abbroviation	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	
~ %P	Dercent Recovery	δ.
	Contains Free Liquid	
CEU	Colony Forming Linit	9.
	Contains No Free Liquid	
	Dunlicate Error Ratio (normalized absolute difference)	
Dil Fac		
	Detection Limit (DoD/DOE)	
DI RARE IN	Indicates a Dilution Re-analysis Re-extraction or additional Initial metals/anion analysis of the sample	
DI C	Decision Level Concentration (Radiochemistry)	
FDI	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	13
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

Job ID: 240-164920-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-164920-1

Comments

No additional comments.

Receipt

The samples were received on 4/13/2022 @ 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.2° C and 0.4° C.

Metals

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

General Chemistry

Method 9056A: The following samples were diluted due to the nature of the sample matrix: MW-16-08 (240-164920-8) and MW-16-11A (240-164920-11). 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.

Method Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-164920-1	MW-16-01	Water	04/07/22 12:50	04/13/22 08:00
240-164920-2	MW-16-02	Water	04/07/22 13:15	04/13/22 08:00
240-164920-3	MW-16-03	Water	04/07/22 14:00	04/13/22 08:00
240-164920-4	MW-16-04	Water	04/07/22 12:05	04/13/22 08:00
240-164920-5	MW-16-05	Water	04/08/22 09:40	04/13/22 08:00
240-164920-6	MW-16-06	Water	04/08/22 13:20	04/13/22 08:00
240-164920-7	MW-16-07	Water	04/08/22 12:40	04/13/22 08:00
240-164920-8	MW-16-08	Water	04/08/22 11:50	04/13/22 08:00
240-164920-9	MW-16-09	Water	04/07/22 13:40	04/13/22 08:00
240-164920-10	MW-16-10	Water	04/08/22 10:50	04/13/22 08:00
240-164920-11	MW-16-11A	Water	04/08/22 08:55	04/13/22 08:00
240-164920-12	DUP 01	Water	04/07/22 00:00	04/13/22 08:00
240-164920-13	DUP-02	Water	04/08/22 00:00	04/13/22 08:00
240-164920-14	EB-01	Water	04/07/22 12:10	04/13/22 08:00

Job ID: 240-164920-1

Client Sample ID: MW-16-01

Lab Sample ID: 240-164920-1

Lab Sample ID: 240-164920-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	49000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	970		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	440		5.0	5.0	mg/L	5		9056A	Total/NA
Fluoride	1.5		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	60		1.0	1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	860		20	20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1200		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	56000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	830		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	350		5.0	5.0	mg/L	5		9056A	Total/NA
Fluoride	1.1		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	21		1.0	1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	710		20	20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1200		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	35000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	730		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	580		10	10	mg/L	10		9056A	Total/NA
Fluoride	1.7		0.050	0.050	mg/L	1		9056A	Total/NA
Total Dissolved Solids	980		20	20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-04

Lab Sample ID: 240-164920-4

Lab Sample ID: 240-164920-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	46000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	2000		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	460		5.0	5.0	mg/L	5		9056A	Total/NA
Fluoride	1.6		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	32		1.0	1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	950		20	20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-05

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Lab Sample ID: 240-164920-5

Lab Sample ID: 240-164920-6

Lab Sample ID: 240-164920-7

Lab Sample ID: 240-164920-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1800		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	36000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	2300		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	1500		20	20	mg/L	20		9056A	Total/NA
Fluoride	1.2		0.10	0.10	mg/L	2		9056A	Total/NA
Sulfate	11		2.0	2.0	mg/L	2		9056A	Total/NA
Total Dissolved Solids	2500		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-06

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Туре
Boron	2100		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	45000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	460		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	1600		20	20	mg/L	20		9056A	Total/NA
Fluoride	1.1		0.10	0.10	mg/L	2		9056A	Total/NA
Sulfate	8.7		2.0	2.0	mg/L	2		9056A	Total/NA
Total Dissolved Solids	2700		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-07

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2100		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	45000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	4900		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	1700		20	20	mg/L	20		9056A	Total/NA
Fluoride	1.1		0.10	0.10	mg/L	2		9056A	Total/NA
Sulfate	33		2.0	2.0	mg/L	2		9056A	Total/NA
Total Dissolved Solids	2900		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-08

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2000		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	46000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	5200		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	1900		20	20	mg/L	20		9056A	Total/NA
Fluoride	1.2		0.10	0.10	mg/L	2		9056A	Total/NA
Total Dissolved Solids	3100		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-09

Lab Sample ID: 240-164920-9

Lab Sample ID: 240-164920-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1500		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	90000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	27000		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	1000		10	10	mg/L	10		9056A	Total/NA
Fluoride	1.4		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	13		1.0	1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	1700		40	40	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Туре
Boron	2100		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	43000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	2900		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	1500		20	20	mg/L	20		9056A	Total/NA
Fluoride	1.1		0.10	0.10	mg/L	2		9056A	Total/NA
Sulfate	140		2.0	2.0	mg/L	2		9056A	Total/NA
Total Dissolved Solids	2700		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-11A

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	2000		100	57	ug/L	1		6010B	Total
									Recoverable
Calcium	41000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	2400		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	1700		20	20	mg/L	20		9056A	Total/NA
Fluoride	1.0		0.10	0.10	mg/L	2		9056A	Total/NA
Total Dissolved Solids	2800		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP 01

Lab Sample ID: 240-164920-12

Lab Sample ID: 240-164920-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1500		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	83000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	28000		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	980		10	10	mg/L	10		9056A	Total/NA
Fluoride	1.4		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	14		1.0	1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	1700		40	40	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-02

Job ID: 240-164920-1

Lab Sample ID: 240-164920-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1800		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	35000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	2200		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	1500		20	20	mg/L	20		9056A	Total/NA
Fluoride	1.2		0.10	0.10	mg/L	2		9056A	Total/NA
Sulfate	10		2.0	2.0	mg/L	2		9056A	Total/NA
Total Dissolved Solids	2600		50	50	mg/L	1		SM 2540C	Total/NA

No Detections.

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Client Sample ID: MW-16-01

Job ID: 240-164920-1

Lab Sample ID: 240-164920-1

04/14/22 10:00 04/20/22 13:32

04/14/22 10:00 04/19/22 20:57

04/14/22 10:00 04/19/22 20:57

Analyzed

Analyzed

Prepared

Prepared

Matrix: Water

Dil Fac

Dil Fac

Dil Fac

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PI	МП	Unit	п
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e			
RL	MDL	Unit	D
1000	1000	ug/L	
100	100	ug/L	
	e RL	RL MDL 100 57 P	RL MDL Unit 100 57 ug/L 8 1000 1000 Unit 1000 1000 ug/L 1000 1000 ug/L

General Chemistry								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Chloride	440		5.0	5.0	mg/L			04/19/22 17:37
Fluoride	1.5		0.050	0.050	mg/L			04/19/22 17:17
Sulfate	60		1.0	1.0	mg/L			04/19/22 17:17
Total Dissolved Solids	860		20	20	mg/L			04/14/22 09:39

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-164920-1

Lab Sample ID: 240-164920-2 Matrix: Water

Matrix: Water

5 6

Date	Collected:	04/07/22	13:15
Date	Received:	04/13/22	08:00

Client Sample ID: MW-16-02

Method: 6010B - Metals (ICP) - Total Reco	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1200		100	57	ug/L		04/14/22 10:00	04/20/22 13:53	1
Method: 6020 - Metals (ICP/N	IS) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	56000		1000	1000	ug/L		04/14/22 10:00	04/19/22 21:28	1
Iron	830		100	100	ug/L		04/14/22 10:00	04/19/22 21:28	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		5.0	5.0	mg/L			04/19/22 18:17	5
Fluoride	1.1		0.050	0.050	mg/L			04/19/22 17:57	1
Sulfate	21		1.0	1.0	mg/L			04/19/22 17:57	1
Total Dissolved Solids	710		20	20	mg/L			04/14/22 09:39	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-164920-1

Lab Sample ID: 240-164920-3 Matrix: Water

Matrix: Water

5 6

Date Collected: 04/07/22 14:00	
Date Received: 04/13/22 08:00	

Client Sample ID: MW-16-03

Method: 6010B - Metals (ICP)	- Total Reco	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1200		100	57	ug/L		04/14/22 10:00	04/20/22 13:57	1
Method: 6020 - Metals (ICP/M	S) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	35000		1000	1000	ug/L		04/14/22 10:00	04/19/22 21:32	1
Iron	730		100	100	ug/L		04/14/22 10:00	04/19/22 21:32	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	580		10	10	mg/L			04/19/22 19:38	10
Fluoride	1.7		0.050	0.050	mg/L			04/19/22 19:18	1
Sulfate	1.0	U	1.0	1.0	mg/L			04/19/22 19:18	1
Total Dissolved Solids	980		20	20	mg/L			04/14/22 09:39	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-164920-1

Lab Sample ID: 240-164920-4

Matrix: Water

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8 9

Client Sample ID: MW-16-04 Date Collected: 04/07/22 12:05 Date Received: 04/13/22 08:00

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Method: 6010B - Metals (ICP)	- Total Reco	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	57	ug/L		04/14/22 10:00	04/20/22 14:02	1
Method: 6020 - Metals (ICP/M	S) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	46000		1000	1000	ug/L		04/14/22 10:00	04/19/22 21:45	1
Iron	2000		100	100	ug/L		04/14/22 10:00	04/19/22 21:45	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	460		5.0	5.0	mg/L			04/19/22 20:58	5
Fluoride	1.6		0.050	0.050	mg/L			04/19/22 19:58	1
Sulfate	32		1.0	1.0	mg/L			04/19/22 19:58	1
Total Dissolved Solids	950		20	20	mg/L			04/14/22 09:39	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-164920-1

Lab Sample ID: 240-164920-5

Matrix: Water

5 6

Client Sample ID: MW-16-05
Date Collected: 04/08/22 09:40
Date Received: 04/13/22 08:00

Method: 6010B - Metals (ICP) -	Total Reco	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1800		100	57	ug/L		04/14/22 10:00	04/20/22 14:14	1
Method: 6020 - Metals (ICP/MS	5) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	36000		1000	1000	ug/L		04/14/22 10:00	04/19/22 21:50	1
Iron	2300		100	100	ug/L		04/14/22 10:00	04/19/22 21:50	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		20	20	mg/L			04/21/22 11:02	20
Fluoride	1.2		0.10	0.10	mg/L			04/21/22 10:40	2
Sulfate	11		2.0	2.0	mg/L			04/21/22 10:40	2
Total Dissolved Solids	2500		50	50	mg/L			04/14/22 09:39	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-164920-1

Lab Sample ID: 240-164920-6

Matrix: Water

5 6

Client Sample ID: MW-16-06
Date Collected: 04/08/22 13:20
Date Received: 04/13/22 08:00

Method: 6010B - Metals (ICP)	- Total Reco	verable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2100		100	57	ug/L		04/14/22 10:00	04/20/22 14:19	1
Method: 6020 - Metals (ICP/M	S) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	45000		1000	1000	ug/L		04/14/22 10:00	04/19/22 21:54	1
Iron	460		100	100	ug/L		04/14/22 10:00	04/19/22 21:54	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		20	20	mg/L			04/19/22 22:19	20
Fluoride	1.1		0.10	0.10	mg/L			04/19/22 21:59	2
Sulfate	8.7		2.0	2.0	mg/L			04/19/22 21:59	2
Total Dissolved Solids	2700		50	50	mg/L			04/14/22 09:39	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-164920-1

Lab Sample ID: 240-164920-7

Matrix: Water

5 6

Client Sample ID: MW-16-07
Date Collected: 04/08/22 12:40
Date Received: 04/13/22 08:00

Method: 6010B - Metals (ICP)	 Total Reco 	verable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2100		100	57	ug/L		04/14/22 10:00	04/20/22 14:23	1
Method: 6020 - Metals (ICP/MS	6) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	45000		1000	1000	ug/L		04/14/22 10:00	04/19/22 21:58	1
Iron	4900		100	100	ug/L		04/14/22 10:00	04/19/22 21:58	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		20	20	mg/L			04/19/22 23:39	20
Fluoride	1.1		0.10	0.10	mg/L			04/19/22 23:19	2
Sulfate	33		2.0	2.0	mg/L			04/19/22 23:19	2
Total Dissolved Solids	2900		50	50	mg/L			04/14/22 09:39	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-164920-1

Lab Sample ID: 240-164920-8 Matrix: Water

Matrix: Water

5 6

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Client Sample ID: MW-16-08 Date Collected: 04/08/22 11:50 Date Received: 04/13/22 08:00

Method: 6010B - Metals (ICP) - Total Reco	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2000		100	57	ug/L		04/14/22 10:00	04/20/22 14:27	1
Method: 6020 - Metals (ICP/	MS) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	46000		1000	1000	ug/L		04/14/22 10:00	04/19/22 22:03	1
Iron	5200		100	100	ug/L		04/14/22 10:00	04/19/22 22:03	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900		20	20	mg/L			04/20/22 00:19	20
Fluoride	1.2		0.10	0.10	mg/L			04/19/22 23:59	2
Sulfate	2.0	U	2.0	2.0	mg/L			04/19/22 23:59	2
Total Dissolved Solids	3100		50	50	mg/L			04/14/22 09:39	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-164920-1

Lab Sample ID: 240-164920-9 Matrix: Water

Matrix: Water

5 6

Client Sample ID: MW-16-09
Date Collected: 04/07/22 13:40
Date Received: 04/13/22 08:00

Method: 6010B - Metals (ICP)	- Total Reco	verable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1500		100	57	ug/L		04/14/22 10:00	04/20/22 14:32	1
Method: 6020 - Metals (ICP/N	IS) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	90000		1000	1000	ug/L		04/14/22 10:00	04/19/22 22:07	1
Iron	27000		100	100	ug/L		04/14/22 10:00	04/19/22 22:07	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		10	10	mg/L			04/20/22 01:00	10
Fluoride	1.4		0.050	0.050	mg/L			04/20/22 00:40	1
Sulfate	13		1.0	1.0	mg/L			04/20/22 00:40	1
Total Dissolved Solids	1700		40	40	mg/L			04/14/22 09:39	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Client Sample ID: MW-16-10

Job ID: 240-164920-1

Lab Sample ID: 240-164920-10 Matrix: Water

Matrix: Water

Dil Fac

Dil Fac

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Date Collected: 04/08/22 10:50 Date Received: 04/13/22 08:00								Matrix
Method: 6010B - Metals (ICP) -	Total Reco	overable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Boron	2100		100	57	ug/L		04/14/22 10:00	04/20/22 14:36
Method: 6020 - Metals (ICP/MS) - Total Re	coverable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Calcium	43000		1000	1000	ug/L		04/14/22 10:00	04/19/22 22:12
Iron	2900		100	100	ug/L		04/14/22 10:00	04/19/22 22:12
General Chemistry								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Chloride	1500		20	20	mg/L			04/20/22 01:40
Fluoride	1.1		0.10	0.10	mg/L			04/20/22 01:20
Sulfate	140		2.0	2.0	mg/L			04/20/22 01:20
Total Dissolved Solids	2700		50	50	mg/L			04/14/22 09:39

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Client Sample ID: MW-16-11A

Date Collected: 04/08/22 08:55

Job ID: 240-164920-1

Lab Sample ID: 240-164920-11

Matrix: Water

Date Received: 04/13/22 08:00									
Method: 6010B - Metals (ICP) - Total Reco	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2000		100	57	ug/L		04/14/22 10:00	04/20/22 14:40	1
Method: 6020 - Metals (ICP/N	IS) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	41000		1000	1000	ug/L		04/14/22 10:00	04/19/22 22:16	1
Iron	2400		100	100	ug/L		04/14/22 10:00	04/19/22 22:16	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		20	20	mg/L			04/20/22 02:20	20
Fluoride	1.0		0.10	0.10	mg/L			04/20/22 02:00	2
Sulfate	2.0	U	2.0	2.0	mg/L			04/20/22 02:00	2
Total Dissolved Solids	2800		50	50	mg/L			04/14/22 09:39	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Client Sample ID: DUP 01

Date Collected: 04/07/22 00:00

Date Received: 04/13/22 08:00

Job ID: 240-164920-1

Lab Sample ID: 240-164920-12 Matrix: Water

Matrix: Water

5 6

Method: 6010B - Metals (IC	P) - Total Reco	overable Qualifier	RI	мы	Unit	п	Prenared	Analyzed	Dil Fac
Boron	1500		100	57	ug/L		04/14/22 10:00	04/20/22 14:44	1
Method: 6020 - Metals (ICP)	/MS) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	83000		1000	1000	ug/L		04/14/22 10:00	04/19/22 22:20	1
Iron	28000		100	100	ug/L		04/14/22 10:00	04/19/22 22:20	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	980		10	10	mg/L			04/20/22 03:41	10
Fluoride	1.4		0.050	0.050	mg/L			04/20/22 03:21	1
Sulfate	14		1.0	1.0	mg/L			04/20/22 03:21	1
Total Dissolved Solids	1700		40	40	mg/L			04/14/22 09:39	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Client Sample ID: DUP-02 Date Collected: 04/08/22 00:00

Date Received: 04/13/22 08:00

Job ID: 240-164920-1

Lab Sample ID: 240-164920-13 Matrix: Water

Matrix: Water

5

_ Method: 6010B - Metals (IC	P) - Total Reco	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1800		100	57	ug/L		04/14/22 10:00	04/20/22 14:49	1
Method: 6020 - Metals (ICP	/MS) - Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	35000		1000	1000	ug/L		04/14/22 10:00	04/19/22 22:25	1
Iron	2200		100	100	ug/L		04/14/22 10:00	04/19/22 22:25	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		20	20	mg/L			04/20/22 05:41	20
Fluoride	1.2		0.10	0.10	mg/L			04/20/22 04:41	2
Sulfate	10		2.0	2.0	mg/L			04/20/22 04:41	2
Total Dissolved Solids	2600		50	50	mg/L			04/14/22 09:39	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Client Sample ID: EB-01

Date Collected: 04/07/22 12:10

Date Received: 04/13/22 08:00

Job ID: 240-164920-1

Lab Sample ID: 240-164920-14

Matrix: Water

5 6

Method: 6010B - Metals (ICP) -	Total Reco	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	57	ug/L		04/14/22 10:00	04/20/22 14:53	1
Method: 6020 - Metals (ICP/MS)	- Total Re	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	1000	ug/L		04/14/22 10:00	04/19/22 22:38	1
Iron	100	U	100	100	ug/L		04/14/22 10:00	04/19/22 22:38	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	1.0	mg/L			04/20/22 06:02	1
Fluoride	0.050	U	0.050	0.050	mg/L			04/20/22 06:02	1
Sulfate	1.0	U	1.0	1.0	mg/L			04/20/22 06:02	1
Total Dissolved Solids	10	U	10	10	mg/L			04/14/22 09:39	1

6040D Motale (ICD) Μ .

Method: 6010B - Metals														
_ Lab Sample ID: MB 240-52	2705/1-A									Cli	ent Sam	ole ID: Meth	bo	Blank
Matrix: Water											Pren Tvn	e: Total Rec	OVE	erable
Analysis Batch: 523367												Prep Batch	1: 5	22705
		МВ	МВ											
Analyte	Re	sult	Qualifier		RL		MDL	Unit		D	Prepared	Analyzed		Dil Fac
Boron		100	U		100		57	ua/L		- 04/	14/22 10:00	04/20/22 13:2	.4 -	1
								0						
Lab Sample ID: LCS 240-52	22705/2-A								Clie	nt Sa	mple ID:	Lab Contro	I Sa	ample
Matrix: Water											Prep Typ	e: Total Rec	ove	erable
Analysis Batch: 523367												Prep Batch	n: 52	22705
-				Spike		LCS	LCS	;				%Rec		
Analyte				Added		Result	Qua	lifier	Unit	D	%Rec	Limits		
Boron				1000		1050			ug/L		105	80 - 120		
Lab Sample ID: 240-164920)-1 MS										Client S	ample ID: N	IW-	16-01
Matrix: Water											Prep Typ	e: Total Rec	OVe	erable
Analysis Batch: 523367												Prep Batch	n: 52	22705
	Sample	San	nple	Spike		MS	MS					%Rec		
Analyte	Result	Qua	alifier	Added		Result	Qua	lifier	Unit	D	%Rec	Limits		
Boron	1100			1000		2260			ug/L		111	75 - 125		
											Client C			40.04
Lab Sample ID: 240-164920											Chefit 3	ample ID: N		10-01
Matrix: Water											Prep Typ	e: Total Red	000	
Analysis Batch: 523367	Comula	6 a m		Cuilco		MOD	мет					Ргер Ватсг	1: 5/	22/05
Analyta	Sample	San	npie	Spike		Beeult	NISL		11		9/ Dee	%Rec	חח	RPD Limit
Boron	1100	Qua		1000		2250	Qua	liner				75 125		20
Boron	1100			1000		2250			uy/L			75-125	0	20
Method: 6020 - Metals (ICP/MS)													
Lab Sample ID: MB 240-52	2705/1-A									Cli	ent Sam	ole ID: Meth	od	Blank
Matrix: Water											Prep Tvp	e: Total Rec	ove	erable
Analysis Batch: 523282												Prep Batch	n: 5	22705
····· · ······························		ΜВ	МВ											
Analyte	Re	sult	Qualifier		RL		MDL	Unit		D	Prepared	Analyzed		Dil Fac
Calcium		1000	U		1000		1000	ug/L		04/	14/22 10:00	04/19/22 20:4	8	1
Iron		100	U		100		100	ug/L		04/	14/22 10:00	04/19/22 20:4	8	1
								•						
Lab Sample ID: LCS 240-52	22705/3-A								Clie	nt Sa	mple ID:	Lab Contro	I Sa	ample
Matrix: Water											Prep Typ	e: Total Rec	ove	erable
Analysis Batch: 523282												Prep Batch	n: 52	22705
				Spike		LCS	LCS	;				%Rec		
Analyte				Added		Result	Qua	lifier	Unit	D	%Rec	Limits		
Calcium				25000		24700			ug/L		99	80 - 120		
Iron				5000		5260			ug/L		105	80 - 120		
Lab Sample ID: 240-164920)-1 MS										Client S	ample ID: N	w.	16-01
Matrix: Water	-										Prep Tvp	e: Total Rec	ove	erable
Analysis Batch: 523282											- 10 - 7 P	Prep Batch	n: 5	22705
	Sample	San	nple	Spike		MS	MS					%Rec		
Analyte	Result	Qua	alifier	Added		Result	Qua	lifier	Unit	D	%Rec	Limits		
Calcium	49000			25000		77500			ug/L		113	75 - 125		

108

75 - 125

Job ID: 240-164920-1

9

6370

ug/L

5000

970

Iron

Lab Sample ID: 240-164920-1 MSD

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Analyte

Calcium

Analyte

Chloride

Fluoride

Sulfate

Analyte

Chloride

Fluoride

Sulfate

Analyte

Chloride

Fluoride

Sulfate

Analyte

Chloride

Fluoride

Sulfate

Analvte

Fluoride

Sulfate

Iron

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

Client Sample ID: MW-16-01

Prep Type: Total Recoverable Analysis Batch: 523282 Prep Batch: 522705 Sample Sample Spike MSD MSD %Rec RPD **Result Qualifier** Added Result Qualifier Unit %Rec Limits RPD Limit D 49000 25000 76200 ug/L 108 75 - 125 2 20 970 5000 6310 ug/L 107 75 - 125 1 20 Method: 9056A - Anions, Ion Chromatography Lab Sample ID: MB 240-523214/3 **Client Sample ID: Method Blank** Prep Type: Total/NA Analysis Batch: 523214 MB MB MDL Unit **Result Qualifier** RL D Prepared Analyzed Dil Fac 04/19/22 11:15 1.0 U 1.0 1.0 ma/L 1 0.050 U 0.050 0.050 mg/L 04/19/22 11:15 1 1.0 U 1.0 1.0 mg/L 04/19/22 11:15 1 Lab Sample ID: MB 240-523214/53 **Client Sample ID: Method Blank Prep Type: Total/NA** Analysis Batch: 523214 MB MB MDL Unit **Result Qualifier** RL D Prepared Analyzed Dil Fac 1.0 U 1.0 1.0 mg/L 04/20/22 04:01 1 0.050 U 0.050 0.050 mg/L 04/20/22 04:01 1 04/20/22 04:01 1.0 U 1.0 1.0 mg/L 1 Lab Sample ID: LCS 240-523214/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Analysis Batch: 523214 Spike LCS LCS %Rec Added **Result Qualifier** Unit %Rec Limits D 50.0 49.3 mg/L 99 90 - 110 2.50 2.53 mg/L 101 90 - 110 50.0 50.9 mg/L 102 90 - 110 Lab Sample ID: LCS 240-523214/54 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Analysis Batch: 523214 LCS LCS Spike %Rec Added Result Qualifier Unit D %Rec Limits 50.0 49.3 mg/L 99 90 - 110 2.50 2.54 mg/L 101 90 - 110 50.0 51.2 mg/L 102 90 - 110 Lab Sample ID: 240-164920-4 MS Client Sample ID: MW-16-04 **Prep Type: Total/NA** Analysis Batch: 523214 Sample Sample Spike MS MS %Rec **Result Qualifier** Added **Result Qualifier** Unit D %Rec Limits 1.6 2.50 4.16 mg/L 101 80 - 120 32 50.0 84.0 mg/L 104 80 - 120

Lab Sample ID: 240-164920-13 MS

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Total Dissolved Solids

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

Client Sample ID: DUP-02 Prep Type: Total/NA

5 6

9

Matrix: Water													Prep Type:	Tot	tal/NA
Analysis Batch: 523214															
Sa	mple S	Sam	ple	Spike		MS	MS						%Rec		
Analyte R	esult C	Qua	lifier	Added		Result	Qua	alifier	Unit		D	%Rec	Limits		
Fluoride	1.2			5.00		6.07			mg/L		_	98	80 - 120		
Sulfate	10			100		109			mg/L			98	80 - 120		
Lab Sample ID: 240-164920-13 M	SD											Clie	nt Sample ID): DI	UP-02
Matrix: Water													Prep Type:	Tot	tal/NA
Analysis Batch: 523214															
Sa	mple S	Sam	ple	Spike		MSD	MS	D					%Rec		RPD
Analyte R	esult C	Qua	lifier	Added		Result	Qua	alifier	Unit		D	%Rec	Limits F	RPD	Limit
Fluoride	1.2			5.00		6.13			mg/L		_	99	80 - 120	1	15
Sulfate	10			100		109			mg/L			99	80 - 120	1	15
Lab Sample ID: MB 240-523393/3											Clie	ent Sam	ple ID: Meth	od	Blank
Matrix: Water													Prep Type:	Tot	tal/NA
Analysis Batch: 523393															
	N	ИΒ	MB												
Analyte	Res	ult	Qualifier		RL	1	MDL	Unit		D	Ρ	repared	Analyzed		Dil Fac
Chloride	1	1.0	U		1.0		1.0	mg/L				•	04/21/22 03:	26	1
Fluoride	0.0	50	U		0.050	0	.050	ma/L					04/21/22 03:	26	1
Sulfate	1	1.0	U		1.0		1.0	ma/L					04/21/22 03:	26	1
Matrix: Water Analysis Batch: 523393				Spike		LCS	LCS	5					Prep Type: %Rec	Tot	al/NA
Analyte				Added		Result	Qua	alifier	Unit		D	%Rec	Limits		
Chloride				50.0		50.6			mg/L		_	101	90 - 110		
Fluoride				2.50		2.66			mg/L			106	90 - 110		
Sulfate				50.0		52.0			mg/L			104	90 - 110		
Method: SM 2540C - Solids,	Total	Di	issolve	d (TD	S)										
				- (- /							nt Com	mia ID: Math		Diank
Lau Salliple ID. WD 240-522/40/1 Matrix: Water											CIIE	an Sam			
Analysis Potoby 522740													Prep Type.	101	al/NA
Analysis Batch. 522740		10	MR												
Analyto	Basi		Qualifier		ы		мы	Unit		Б	D	roparod	Applyzod		
Total Dissolved Solids	Res	10			10		10	ma/l			F	repareu		39 -	
		10	C		10		10	g,∟					54/14/22 00.		
Lab Sample ID: LCS 240-522740//	2								CI	ient	Sar	nple ID	: Lab Contro	ol Sa	ample
Matrix: Water												•	Prep Type:	Tot	tal/NA
Analysis Batch: 522740															
· · · · · · · · · · · · · · · · · · ·				Spike		LCS	LCS	S					%Rec		
Analyte				Added		Result	Qua	alifier	Unit		D	%Rec	Limits		

495

495

mg/L

100

80 - 120
QC Sample Results

Job ID: 240-164920-1

9

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

Lab Sample ID: 240-164920 Matrix: Water Analysis Batch: 522740	0-14 DU						CI	ient Samp Prep Ty	le ID: E pe: Tot	EB-01 al/NA
-	Sample	Sample	DU	DU						RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D			RPD	Limit
Total Dissolved Solids	10	U	10	U	mg/L				NC	20

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Metals

5 6 7

10

Prep Batch: 522705					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164920-1	MW-16-01	Total Recoverable	Water	3005A	
240-164920-2	MW-16-02	Total Recoverable	Water	3005A	
240-164920-3	MW-16-03	Total Recoverable	Water	3005A	
240-164920-4	MW-16-04	Total Recoverable	Water	3005A	
240-164920-5	MW-16-05	Total Recoverable	Water	3005A	
240-164920-6	MW-16-06	Total Recoverable	Water	3005A	
240-164920-7	MW-16-07	Total Recoverable	Water	3005A	
240-164920-8	MW-16-08	Total Recoverable	Water	3005A	
240-164920-9	MW-16-09	Total Recoverable	Water	3005A	
240-164920-10	MW-16-10	Total Recoverable	Water	3005A	
240-164920-11	MW-16-11A	Total Recoverable	Water	3005A	
240-164920-12	DUP 01	Total Recoverable	Water	3005A	
240-164920-13	DUP-02	Total Recoverable	Water	3005A	
240-164920-14	EB-01	Total Recoverable	Water	3005A	
MB 240-522705/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-522705/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-522705/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-164920-1 MS	MW-16-01	Total Recoverable	Water	3005A	
240-164920-1 MS	MW-16-01	Total Recoverable	Water	3005A	
240-164920-1 MSD	MW-16-01	Total Recoverable	Water	3005A	
240-164920-1 MSD	MW-16-01	Total Recoverable	Water	3005A	

Analysis Batch: 523282

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-164920-1	MW-16-01	Total Recoverable	Water	6020	522705
240-164920-2	MW-16-02	Total Recoverable	Water	6020	522705
240-164920-3	MW-16-03	Total Recoverable	Water	6020	522705
240-164920-4	MW-16-04	Total Recoverable	Water	6020	522705
240-164920-5	MW-16-05	Total Recoverable	Water	6020	522705
240-164920-6	MW-16-06	Total Recoverable	Water	6020	522705
240-164920-7	MW-16-07	Total Recoverable	Water	6020	522705
240-164920-8	MW-16-08	Total Recoverable	Water	6020	522705
240-164920-9	MW-16-09	Total Recoverable	Water	6020	522705
240-164920-10	MW-16-10	Total Recoverable	Water	6020	522705
240-164920-11	MW-16-11A	Total Recoverable	Water	6020	522705
240-164920-12	DUP 01	Total Recoverable	Water	6020	522705
240-164920-13	DUP-02	Total Recoverable	Water	6020	522705
240-164920-14	EB-01	Total Recoverable	Water	6020	522705
MB 240-522705/1-A	Method Blank	Total Recoverable	Water	6020	522705
LCS 240-522705/3-A	Lab Control Sample	Total Recoverable	Water	6020	522705
240-164920-1 MS	MW-16-01	Total Recoverable	Water	6020	522705
240-164920-1 MSD	MW-16-01	Total Recoverable	Water	6020	522705

Analysis Batch: 523367

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-164920-1	MW-16-01	Total Recoverable	Water	6010B	522705
240-164920-2	MW-16-02	Total Recoverable	Water	6010B	522705
240-164920-3	MW-16-03	Total Recoverable	Water	6010B	522705
240-164920-4	MW-16-04	Total Recoverable	Water	6010B	522705
240-164920-5	MW-16-05	Total Recoverable	Water	6010B	522705
240-164920-6	MW-16-06	Total Recoverable	Water	6010B	522705

QC Association Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Metals (Continued)

Analysis Batch: 523367 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164920-7	MW-16-07	Total Recoverable	Water	6010B	522705
240-164920-8	MW-16-08	Total Recoverable	Water	6010B	522705
240-164920-9	MW-16-09	Total Recoverable	Water	6010B	522705
240-164920-10	MW-16-10	Total Recoverable	Water	6010B	522705
240-164920-11	MW-16-11A	Total Recoverable	Water	6010B	522705
240-164920-12	DUP 01	Total Recoverable	Water	6010B	522705
240-164920-13	DUP-02	Total Recoverable	Water	6010B	522705
240-164920-14	EB-01	Total Recoverable	Water	6010B	522705
MB 240-522705/1-A	Method Blank	Total Recoverable	Water	6010B	522705
LCS 240-522705/2-A	Lab Control Sample	Total Recoverable	Water	6010B	522705
240-164920-1 MS	MW-16-01	Total Recoverable	Water	6010B	522705
240-164920-1 MSD	MW-16-01	Total Recoverable	Water	6010B	522705

General Chemistry

Analysis Batch: 522740

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-164920-1	MW-16-01	Total/NA	Water	SM 2540C	
240-164920-2	MW-16-02	Total/NA	Water	SM 2540C	
240-164920-3	MW-16-03	Total/NA	Water	SM 2540C	
240-164920-4	MW-16-04	Total/NA	Water	SM 2540C	
240-164920-5	MW-16-05	Total/NA	Water	SM 2540C	
240-164920-6	MW-16-06	Total/NA	Water	SM 2540C	
240-164920-7	MW-16-07	Total/NA	Water	SM 2540C	
240-164920-8	MW-16-08	Total/NA	Water	SM 2540C	
240-164920-9	MW-16-09	Total/NA	Water	SM 2540C	
240-164920-10	MW-16-10	Total/NA	Water	SM 2540C	
240-164920-11	MW-16-11A	Total/NA	Water	SM 2540C	
240-164920-12	DUP 01	Total/NA	Water	SM 2540C	
240-164920-13	DUP-02	Total/NA	Water	SM 2540C	
240-164920-14	EB-01	Total/NA	Water	SM 2540C	
MB 240-522740/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-522740/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-164920-14 DU	EB-01	Total/NA	Water	SM 2540C	

Analysis Batch: 523214

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-164920-1	MW-16-01	Total/NA	Water	9056A	
240-164920-1	MW-16-01	Total/NA	Water	9056A	
240-164920-2	MW-16-02	Total/NA	Water	9056A	
240-164920-2	MW-16-02	Total/NA	Water	9056A	
240-164920-3	MW-16-03	Total/NA	Water	9056A	
240-164920-3	MW-16-03	Total/NA	Water	9056A	
240-164920-4	MW-16-04	Total/NA	Water	9056A	
240-164920-4	MW-16-04	Total/NA	Water	9056A	
240-164920-6	MW-16-06	Total/NA	Water	9056A	
240-164920-6	MW-16-06	Total/NA	Water	9056A	
240-164920-7	MW-16-07	Total/NA	Water	9056A	
240-164920-7	MW-16-07	Total/NA	Water	9056A	
240-164920-8	MW-16-08	Total/NA	Water	9056A	
240-164920-8	MW-16-08	Total/NA	Water	9056A	

Eurofins Canton

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Job ID: 240-164920-1

QC Association Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

General Chemistry (Continued)

Analysis Batch: 523214 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-164920-9	MW-16-09	Total/NA	Water	9056A	
240-164920-9	MW-16-09	Total/NA	Water	9056A	
240-164920-10	MW-16-10	Total/NA	Water	9056A	
240-164920-10	MW-16-10	Total/NA	Water	9056A	
240-164920-11	MW-16-11A	Total/NA	Water	9056A	
240-164920-11	MW-16-11A	Total/NA	Water	9056A	
240-164920-12	DUP 01	Total/NA	Water	9056A	
240-164920-12	DUP 01	Total/NA	Water	9056A	
240-164920-13	DUP-02	Total/NA	Water	9056A	
240-164920-13	DUP-02	Total/NA	Water	9056A	
240-164920-14	EB-01	Total/NA	Water	9056A	
MB 240-523214/3	Method Blank	Total/NA	Water	9056A	
MB 240-523214/53	Method Blank	Total/NA	Water	9056A	
LCS 240-523214/4	Lab Control Sample	Total/NA	Water	9056A	
LCS 240-523214/54	Lab Control Sample	Total/NA	Water	9056A	
240-164920-4 MS	MW-16-04	Total/NA	Water	9056A	
240-164920-4 MSD	MW-16-04	Total/NA	Water	9056A	
240-164920-13 MS	DUP-02	Total/NA	Water	9056A	
240-164920-13 MSD	DUP-02	Total/NA	Water	9056A	

Analysis Batch: 523393

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-164920-5	MW-16-05	Total/NA	Water	9056A	
240-164920-5	MW-16-05	Total/NA	Water	9056A	
MB 240-523393/3	Method Blank	Total/NA	Water	9056A	
LCS 240-523393/4	Lab Control Sample	Total/NA	Water	9056A	

Client Sample ID: MW-16-01 Date Collected: 04/07/22 12:50 Date Received: 04/13/22 08:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 13:32	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 20:57	DSH	TAL CAN
Total/NA	Analysis	9056A		1	523214	04/19/22 17:17	KMS	TAL CAN
Total/NA	Analysis	9056A		5	523214	04/19/22 17:37	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Client Sample ID: MW-16-02 Date Collected: 04/07/22 13:15

Date Received: 04/13/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 13:53	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 21:28	DSH	TAL CAN
Total/NA	Analysis	9056A		1	523214	04/19/22 17:57	KMS	TAL CAN
Total/NA	Analysis	9056A		5	523214	04/19/22 18:17	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Client Sample ID: MW-16-03 Date Collected: 04/07/22 14:00 Date Received: 04/13/22 08:00

Lab Sample ID: 240-164920-3

Lab Sample ID: 240-164920-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 13:57	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 21:32	DSH	TAL CAN
Total/NA	Analysis	9056A		1	523214	04/19/22 19:18	KMS	TAL CAN
Total/NA	Analysis	9056A		10	523214	04/19/22 19:38	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Client Sample ID: MW-16-04 Date Collected: 04/07/22 12:05 Date Received: 04/13/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 14:02	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 21:45	DSH	TAL CAN
Total/NA	Analysis	9056A		1	523214	04/19/22 19:58	KMS	TAL CAN

Eurofins Canton

Matrix: Water

Job ID: 240-164920-1

Matrix: Water

Matrix: Water

Lab Sample ID: 240-164920-1

Lab Sample ID: 240-164920-2

Client Sample ID: MW-16-04 Date Collected: 04/07/22 12:05 Date Received: 04/13/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A		5	523214	04/19/22 20:58	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Client Sample ID: MW-16-05 Date Collected: 04/08/22 09:40 Date Received: 04/13/22 08:00

—	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 14:14	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 21:50	DSH	TAL CAN
Total/NA	Analysis	9056A		2	523393	04/21/22 10:40	KMS	TAL CAN
Total/NA	Analysis	9056A		20	523393	04/21/22 11:02	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Client Sample ID: MW-16-06 Date Collected: 04/08/22 13:20 Date Received: 04/13/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 14:19	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 21:54	DSH	TAL CAN
Total/NA	Analysis	9056A		2	523214	04/19/22 21:59	KMS	TAL CAN
Total/NA	Analysis	9056A		20	523214	04/19/22 22:19	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Client Sample ID: MW-16-07 Date Collected: 04/08/22 12:40 Date Received: 04/13/22 08:00

-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 14:23	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 21:58	DSH	TAL CAN
Total/NA	Analysis	9056A		2	523214	04/19/22 23:19	KMS	TAL CAN
Total/NA	Analysis	9056A		20	523214	04/19/22 23:39	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Job ID: 240-164920-1

Lab Sample ID: 240-164920-4

Lab Sample ID: 240-164920-5

Matrix: Water

Matrix: Water

Lab Sample ID: 240-164920-6 Matrix: Water

TAL CAN

Lab Sample ID: 240-164920-7

Matrix: Water

Client Sample ID: MW-16-08 Date Collected: 04/08/22 11:50 Date Received: 04/13/22 08:00

Prep Type Total Recoverable Total Recoverable **Total Recoverable** Total Recoverable

Total/NIA

J4/13/22 U	0.00						
Batch	Batch		Dilution	Batch	Prepared		
Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Analysis	6010B		1	523367	04/20/22 14:27	RKT	TAL CAN
Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Analysis	6020		1	523282	04/19/22 22:03	DSH	TAL CAN

523214 04/19/22 23:59 KMS

523214 04/20/22 00:19 KMS 522740 04/14/22 09:39 KMS

2

20

1

Client Samp	le ID: MW	-16-09	
Total/NA	Analysis	SM 2540C	
Total/NA	Analysis	9056A	
IUlai/INA	Analysis	9030A	

Analysia

ample ID: WV Date Collected: 04/07/22 13:40

00564

Date Received: 04/13/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 14:32	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 22:07	DSH	TAL CAN
Total/NA	Analysis	9056A		1	523214	04/20/22 00:40	KMS	TAL CAN
Total/NA	Analysis	9056A		10	523214	04/20/22 01:00	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Client Sample ID: MW-16-10 Date Collected: 04/08/22 10:50 Date Received: 04/13/22 08:00

Dilution Batch Batch Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Prep 3005A 522705 04/14/22 10:00 SHB TAL CAN Total Recoverable 6010B **Total Recoverable** Analysis 1 523367 04/20/22 14:36 RKT TAL CAN **Total Recoverable** Prep 3005A 522705 04/14/22 10:00 SHB TAL CAN **Total Recoverable** Analysis 6020 1 523282 04/19/22 22:12 DSH TAL CAN Total/NA 9056A 2 TAL CAN Analysis 523214 04/20/22 01:20 KMS Total/NA Analysis 9056A 20 523214 04/20/22 01:40 KMS TAL CAN 522740 04/14/22 09:39 KMS Total/NA TAL CAN Analysis SM 2540C 1

Client Sample ID: MW-16-11A Date Collected: 04/08/22 08:55 Date Received: 04/13/22 08:00

-	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 14:40	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 22:16	DSH	TAL CAN
Total/NA	Analysis	9056A		2	523214	04/20/22 02:00	KMS	TAL CAN

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Matrix: Water

Job ID: 240-164920-1

Lab Sample ID: 240-164920-8

TAL CAN

TAL CAN

TAL CAN

Lab Sample ID: 240-164920-9

Matrix: Water

Matrix: Water

11

00	KMS	TAL CAN
39	KMS	TAL CAN

Lab Sample ID: 240-164920-10 Matrix: Water

Lab Sample ID: 240-164920-11

Client Sample ID: MW-16-11A Date Collected: 04/08/22 08:55 Date Received: 04/13/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A		20	523214	04/20/22 02:20	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Client Sample ID: DUP 01 Date Collected: 04/07/22 00:00 Date Received: 04/13/22 08:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 14:44	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 22:20	DSH	TAL CAN
Total/NA	Analysis	9056A		1	523214	04/20/22 03:21	KMS	TAL CAN
Total/NA	Analysis	9056A		10	523214	04/20/22 03:41	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Client Sample ID: DUP-02 Date Collected: 04/08/22 00:00 Date Received: 04/13/22 08:00

—	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 14:49	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 22:25	DSH	TAL CAN
Total/NA	Analysis	9056A		2	523214	04/20/22 04:41	KMS	TAL CAN
Total/NA	Analysis	9056A		20	523214	04/20/22 05:41	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Client Sample ID: EB-01 Date Collected: 04/07/22 12:10 Date Received: 04/13/22 08:00

-	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6010B		1	523367	04/20/22 14:53	RKT	TAL CAN
Total Recoverable	Prep	3005A			522705	04/14/22 10:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	523282	04/19/22 22:38	DSH	TAL CAN
Total/NA	Analysis	9056A		1	523214	04/20/22 06:02	KMS	TAL CAN
Total/NA	Analysis	SM 2540C		1	522740	04/14/22 09:39	KMS	TAL CAN

Laboratory References:

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

Job ID: 240-164920-1

Lab Sample ID: 240-164920-11

Lab Sample ID: 240-164920-12

Matrix: Water

Matrix: Water

Lab Sample ID: 240-164920-13 Matrix: Water

Lab Sample ID: 240-164920-14

Matrix: Water

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Laboratory: Eurofins Canton

All accreditations/certifications held	by this laboratory are listed. Not all ac	ccreditations/certifications are applicable t	o this report.	<u> </u>
_ Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-23	
Connecticut	State	PH-0590	12-31-23	5
Florida	NELAP	E87225	06-30-22	
Georgia	State	4062	02-23-22 *	
Illinois	NELAP	200004	07-31-22	
lowa	State	421	06-01-23	
Kansas	NELAP	E-10336	04-30-22	
Kentucky (UST)	State	112225	02-23-22 *	8
Kentucky (WW)	State	KY98016	12-31-22	
Minnesota	NELAP	039-999-348	12-31-22	Q
Minnesota (Petrofund)	State	3506	08-01-23	3
New Jersey	NELAP	OH001	11-06-22	
New York	NELAP	10975	04-01-23	
Ohio	State	8303	02-23-23	
Ohio VAP	State	CL0024	02-27-23	
Oregon	NELAP	4062	02-27-23	10
Pennsylvania	NELAP	68-00340	08-31-22	12
Texas	NELAP	T104704517-22-16	08-31-22	
Virginia	NELAP	11570	09-14-22	13
Washington	State	C971	01-12-23	
West Virginia DEP	State	210	12-31-22	
-				

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

Cline Information Description Description <thdescription< th=""></thdescription<>	Eurofins Canton 180 S. Van Buren Avenue Barberton, OH 44203 Phone (330) 497-9396 Phone (330) 497-0772	Chain of Custody Record	MICHIC 190	IAN	Curofins Environment Testing
Market formulation Image: Section Ima	Cliant Information	Sampler: A Construction Cab PM:	Camer Tra	scking No(s).	COC No.
Match former Total former<	Client Contact	Phone ATRONE CU CUDALICU BUDGAS, MIS W	State of O	ngin:	240-001 60-00 146.6 Page:
Title Reservention Contraction Another Requirement Another Requir	Jacob Krenz	Kris Brooks@Eur	rofinset.com		Page 2 of 2
(With Enclose Free Declase free free Declase free free free free free free free fr	Company TRC Environmental Corporation	OISMA	Analysis Requested		Job #
Chrometer Chrometer <thchrometer< th=""> <thchrometer< th=""> <thc< td=""><td>Address 1540 Eisenhower Place</td><td>Due Date Requested:</td><td></td><td></td><td>Preservation Codes:</td></thc<></thchrometer<></thchrometer<>	Address 1540 Eisenhower Place	Due Date Requested:			Preservation Codes:
Start Relation Start R	City Ann Arbor	TAT Requested (days):			B - NaOH N - None C - Zn Acetate O - AsnaO2
The Mark	State, Zp: MI, 48108-7080	Compliance Project: A Yes A No			D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3
Discription With an interval interval With an interval interval With an interval interval With an interval int	Phone 313-971-7080(Tel) 313-971-9022(Fax)	PO# 179971 - 2022			F - MeOH R - Na2S203 G - Amchlor S - H2S04 H - Ascorthic Acid T - TSP Dordecahwhrate
	Emait JKrenz@trccompanies.com	WO# 0003 P1 T2 0012 P1 T2			I - Ice U - Acetone J = DI Water V - MCAA
Difference Score	Project Name CCR DTE Belle River Power	Project # 24016463			L - EDA V - PH 4-5 L - EDA Z - other (specify)
Sample (dentification Sample (dentification <th< td=""><td>Site Michigan</td><td>A) OS</td><td>Ca, Fe</td><td></td><td>of con Other:</td></th<>	Site Michigan	A) OS	Ca, Fe		of con Other:
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OUP-01		Preservation Code: N 1	19 0		
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EB-01 ··· V171Z2 ZLD Water X X X Y Water V171Z2 LD Water X X X Y Water V171Z2 LD Water X X X Water V10 V11Z2 LD Water X X Water V10 V10 V11Z2 V11Z2 V11Z2 V12 Water V10 V10 V10 V10 V10 V10 Mater Mater Mater M10 M10	DUP-02 .	4-8-22 G water X	×		2
Water Water Water Water Water Water Water Mainter Mainter Mainter Mainter Mainter Mainter Mon-Hazard Mainter Mainter Mainter Mainter Mainter Describte Hazard (Hernification Mainter Mainter Mainter Mainter Describte Hazard Mainter Mainter Mainter Mainter Describte Hazard Mainter Mainter Mainter Mainter Description Mainter Mainter Mainter Mainter Mainter Mainter Mainter Mainter<	EB-01 ·	4/7/77/210 G water X			2
Persible Hazard Identification Persible Hazard Identification Persible Hazard Identification Incon-Hazard Carlington Sample Disposal (A fee may be assessed if samples are retained forger fran 1 month) Incon-Hazard Carlington Sample Disposal (A fee may be assessed if samples are retained forger fran 1 month) Incon-Hazard Carlington Sample Disposal (A fee may be assessed if samples are retained forger fran 1 month) Incon-Hazard Carlington Sample Disposal (A fee may be assessed if samples are retained forger in the north) Incon-Hazard Carlington Sample Disposal (A fee may be assessed if samples are retained forger in the north) Incon-Hazard Carlington Sample Disposal (A fee may be assessed if samples are retained forger in the north) Incon-Hazard Carlington Sample Disposal (A fee may be assessed if samples are retained forger in the north) Incon-Hazard Carlington Sample Disposal (A fee may be assessed if samples are retained forger in the north) Inconstruction Definition Definition Rendom N Inconstruction Definition		Water			
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Possible Haard Identification Possible Haard Identification Processible Haard Identification Poston B Non-Haard Control Poston B Defension Poston B Remoter Di Non-Haard Control Remoter Di Internet Remoter Di Non-Haard Control Remoter Di Non-Haard Control Remoter Di Non-Haard Control Remoter Di Poston B Remoter Di Non-Haard Control Remoter Di Poston B Remoter Di Poston B Remoter					
Possible Hazard Identification Image: Clear Intent in the image: Clear Intent					
Possible Hazard Identification Pessible Hazard Identification Pessible Hazard Identification Pessible Hazard Identification Покон-Hazard Carline Intervention (Intervention Processed Intervention Processed Intervention Processed Interventions) Покон-Hazard Carline For Months Покон-Hazard Carline Intervention (Intervention Processed Interventions) Покон-Hazard Carline Interventions) Покон-Hazard Carline For Months Покон-Hazard Carline Intervention (Interventions) Покон-Hazard Carline Interventions) Покон-Hazard Покон-Hazard Лонон-Hazard Покон-Hazard Покон-Hazard Покон-Hazard Покон-Hazard Лонон-Hazard Покон-Hazard Покон-Hazard Покон-Hazard Покон-Hazard Лонон-Hazard Покон-Hazard Покон-Hazard Покон-Hazard Покон-Hazard Донон-Hazard Покон-Hazard Покон-Hazard Покон-Hazard Покон-Hazard Покон-Hazard Покон-Hazard					
Possible Hazard Identification Possible Hazard Identification Deliverable Requested: I, II, IV, Other (specify) Skin Intant Deliverable Requested: I, II, IV, Other (specify) Special Instructions/GC Requirements: Deliverable Requested to the instructions/GC Requirements: Deliverable Referent to the instructions/GC Requirements: Instructions/GC Requirements: Referent to the instruction to the instruction to the instruc					
Possible Hazard Identification Passible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal by Lab Archive For Months Deliverable Requested 1, II, III, N. Other (specify) Empty Kit Relinquished by: Deliverable Secial Instructions/GC Requirements: Months Reimplexed by Image: Image: Image: Image: Image: Months Reimplexed by Reimplexed by Image: Image: Image: Months Reimplexed by Reimplexed by Image: Image: Image: Months Reimplexed by Received by Image: Image: Image: Image: Refinationshed by Received by Received by Image: Image: Image: Refinationshed by Received by Received by Image: Image: Image: Reinquished by <td></td> <td></td> <td></td> <td></td> <td></td>					
Deliverable Requested 1, II, IV, Other (specify) Empty Kit Relinquished by: Reingfished b	Possible Hazard Identification		Disposal (A fee may be assessed	if samples are reta	ined longer than 1 month)
Empty Kit Relinquished by: Date: Time: Item: Method of Shipment Relinquished by: Relinquished by: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Relinquished by: Method State Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Relinquished by: Method State Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Relinquished by: Method State Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Relinquished by: Method State Time: Date/Time: Date/Time: Date/Time: Date/Time: Company Relinquished by: Method State Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: A Yes A No Method State Time: A Yes A No Conter Temperature(s)*C and Other Remarks. Ver O/I/6/2019	Deliverable Requested: I, II, IV, Other (specify)	ruson o unknown radiological o re Special Ir	eturn to Crient Ulsposal E Instructions/QC Requirements:	sy Lab An	cnive For Months
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Custody Seals Intact Custody Seal No.:		Date/Time. Company Receiv		V Date/Time	Company
Ver. 01/16/2019	Custody Seals Intact: Custody Seal No.:	Coole	ar Temperature(s) °C and Other Remarks.		
					Ver: 01/16/2019

Claim
Chent Site Name Cooler unpacted on Cooler unpacted or Cooler depact on Cooler depact on Cooler depact on Cooler depact on FedEx: 1" Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other Cooler depact on Receipt After-bours: Drop-off Date Ume Storage Location Cooler depact on Packing material used: Bubble-Wrap Foam Plastic Bag None Other Cooler depact on COOLANT: Weil Ece Dry Ice Water None See Multiple Cooler Ferm IR GUN #IR-16 (CF -0.2 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C 2. Were tamper/custody scals on the outside of the cooler(s)? If Yes Quantity Yes No No -Were tamper/custody scals on the outside of the cooler(s)? Yes No No 3. Shippers' packing slip attached to the cooler(s)? Yes No No 4. Did custody papers recompany the sample(s)? Yes No No 5. Were the person(s) who collected the samples locarity identified on the COC? No No 7. Did all bottle sample, does the COC apecify preservatives (YNN), # of container(YNN), and container(YNN), and container(YNN), and container(YNN), and container(YNN)? No 9. For each sample, does the COC apecify preservatives (YNN), # of container(YNN), and container(YNN), and container(YNN), a
Cooler Received onGrd Exp UPS FAS Clipper) Client Drop Off TestAmerica Courier Other Other Receipt After-haurs: Drop-off Date/Lime Storage Location FedEx: 1" Grd Exp UPS FAS Clipper) Client Drop Off TestAmerica Courier Other Other Packing material used: Bubble-Wrap Foam Plastic Bag None Other Storage Location COOLANT: Wet Ice? Bhe Ice Dry Ice Water None See Multiple Cooler Form IR GUN #IR-16 (CF +0.2°C) Observed Cooler TempC Corrected Cooler TempC Cooler temperature upOT receipt See Multiple Cooler Form IR GUN #IR-15 (CF +0.2°C) Observed Cooler TempC Corrected Cooler TempC Corrected Cooler TempC Corrected Cooler TempC Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity // Yes No No Were tamper/custody seals intact and uncompromised? Yes No No Shippers' packing slip stached to the cooler(s)? Yes No No Shippers' packing slip stached to the cooler(s)? Yes No No Shippers' packing slip stached to the cooler(s)? Yes No No Shippers' packing slip stached to the cooler(s)? Yes No No Shippers' packing slip stached to the cooler(s)? Yes No No Shi Were the peson(s) who collected the samples clearly ide
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Receipt After-hours: Drop-off Date Lime Storage Location [restAmerica Cooler #
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17. Was a LL Hg or Me Hg trip blank present? Yes No
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
9. SAMPLE CONDITION
Sample(s)
Semale(e) were received with Luble X and in timeses Alasia, DM
were received with bubble >0 mm in diameter. (Notity PM)
U. SAMPLE PRESERVATION
Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):
OA Sample Preservation - Date/Time VOAs Frozen:

WI-NC-099

Login #:

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Cooler D	escription	IR Gun #	Observed	Corrected	Coolant
	ircle)	(Circle)	Temp °C	Temp %	(Circle)
IA Client	Box Other	IR-04 IR-15	O(n)		Welles Blueles Dry ice
TA Client	Box Other	HR-14 IR-15)	0.4	0.2	Water None Wet Ice Blue Ice Dry Ice
IA Client	lox Other	IR-14 IR-15		0.01	Water None Wetice Blueice Dry ice
TA Client	Box Other	IR-14 IR-15			Water None Welice Sive Ice Dry Ice
TA Client	Box Other	IR-14 IR-15			Water None Wetice Blue ice Dry ice
1A Client	Box Other	IR-14 IR-15			Water None Wet ice Blue ice Dry ice
TA Clent	Box Other	IR-14 IR-15		1	Water None Wetice Blueice Dry ice
TA Client	Box Other	IR-14 IR-15			Water None Wet ice Blue iae Dry ice
TA Client	Box Other	IR-14 IR-15			Water None Wellice Bluelice Drylice
TA Client	Box _Other	IR-14 IR-15			Wet ice Blue ice Dry ice
TA Client	Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice
TA Client	Box Other	IR-14 IR-15			Water None Wet ice Blue ice Dry ice
TA Client	Box Other	IR-14 IR-15	1	4 H	Water None Wet ice Dive ice Dry ice
TA Client	Box" Other	IR-14 IR-15			Wet ice Blue ice Dry ice
TA Client	Box Other	IE-14 IE-15			Water None Wet Ice Blue Ice Dry Ice
TA Client	Box Other	IR-84 IR-15			Wellice Bluelice Dry ice
TA Client	.Box Other	IR-74 IR-15			Water None Wet Ice Blue Ice Dry Ice
TA Client	Box Other	IR-14 H-15	-		Water None Wetice Blueice - Dry Ice
TA Client	Box Other	IR-14 IR-15	,		Wet ice Blue ice Dry ice
TA Client	Box Other	e IR-14 IR-15		<u></u>	Wet ice Blue ice Dry ice
TA Client	Sox Other	1R-14 IR-15		21	Water None
TA Client	Box Other	IR-14 IR-15		7	Wet ice Blue ice Dry ice
TA Client	Box Other	IR-14 IR-15		·	Wet ice Use ice Dry ice
TA Client	Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice
IA Clieni	Jox Other	IR-14 IR-15			Wellice Sivelice Drylice
IA Client	Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
A Client	Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
A Client	Box Other	IR-14 SR-16		² 3	Wellice Bluelice Drylice Waler None
A Clent	Box Other	, IR-14 IR-15			Wellice Bluelice Dry Ice /
A Client	Box Other	IR-14 IR-15			Wellice Bluelice Drylice Water None
A Client	Box Other	iR-14 iR-15	-		Wet Ice Blue Ice Dry Ice Water None
A Client	lox Other	IR-14 IR-15			Wellice Bluelice Dry Ice
A Clent	tox Other	IR-14 IR-15		the provide	Wellice Bluelice., Drylice a Water Name
A Client	lox Other	12-14 IR-15		and the second	Wellice Bluelice Drydce

* W1-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

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4/24/2022

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Temperature readings:

Client Sample ID	Lab ID	Container Type	<u>Conta</u> pH	<u>ainer</u> Temp	Preservative Added (mls) Lot #	
MW-16-01	240-164920-B-1	Plastic 500ml - with Nitric Acid	<2	-		
MW-16-02	240-164920-B-2	Plastic 500ml - with Nitric Acid	<2			5
MW-16-03	240-164920-В-3	Plastic 500ml - with Nitric Acid	<2			
MW-16-04	240-164920-В-4	Plastic 500ml - with Nitric Acid	<2			
MW-16-05	240-164920-В-5	Plastic 500ml - with Nitric Acid	<2			0
MW-16-06	240-164920-B-6	Plastic 500ml - with Nitric Acid	<2			8
MW-16-07	240-164920-B-7	Plastic 500ml - with Nitric Acid	<2			9
MW-16-08	240-164920-B-8	Plastic 500ml - with Nitric Acid	<2			
MW-16-09	240-164920-В-9	Plastic 500ml - with Nitric Acid	<2			
MW-16-10	240-164920-B-10	Plastic 500ml - with Nitric Acid	<2			
MW-16-11A	240-164920-B-11	Plastic 500ml - with Nitric Acid	<2			
DUP 01	240-164920-B-12	Plastic 500ml - with Nitric Acid	<2			
DUP-02	240-164920-B-13	Plastic 500ml - with Nitric Acid	<2			13
EB-01	240-164920-B-14	Plastic 500ml - with Nitric Acid	<2			

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-166571-1

Client Project/Site: CCR DTE Belle River Power

For:

LINKS

Review your project results through

EOL

Have a Question?

www.eurofinsus.com/Env

Visit us at:

Ask— The Expert TRC Environmental Corporation. 1540 Eisenhower Place Ann Arbor, Michigan 48108-7080

Attn: Mr. Vincent Buening

Sroohs to

Authorized for release by: 5/24/2022 8:30:42 PM

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

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

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QC Association Summary	16
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Certification Summary	19
Chain of Custody	20

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Qualifiers

Qualifiers		3
Metals		
Qualifier		4
U	indicates the analyte was analyzed for but not detected.	
General Che	mistry	5
Qualifier	Qualifier Description	
0	Indicates the analyte was analyzed for but not detected.	
Glossary		7
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	8
%R	Percent Recovery	
CFL	Contains Free Liquid	Q
CFU	Colony Forming Unit	3
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)	13
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

Job ID: 240-166571-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-166571-1

Comments

No additional comments.

Receipt

The samples were received on 5/13/2022 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 was 0.1° C.

Metals

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

General Chemistry

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

Job ID: 240-166571-1

Method Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL CAN
9056A	Anions, Ion Chromatography	SW846	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Job ID: 240-166571-1

5 6

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-166571-1	MW-16-01	Water	05/09/22 10:02	05/13/22 08:00
240-166571-2	MW-16-02	Water	05/09/22 11:13	05/13/22 08:00
240-166571-3	MW-16-06	Water	05/09/22 12:20	05/13/22 08:00
240-166571-4	MW-16-10	Water	05/09/22 09:32	05/13/22 08:00
240-166571-5	DUP-01	Water	05/09/22 00:00	05/13/22 08:00
240-166571-6	DUP-02	Water	05/09/22 00:00	05/13/22 08:00
240-166571-7	EB-01	Water	05/09/22 09:55	05/13/22 08:00

Eurofins Canton 5/24/2022

Detection Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-166571-1

Client Sample ID: MW-16-01						Lab Sa	an	ple ID: 2	40-166571-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Calcium	40000		1000	1000	ug/L	1	_	6020	Total
									Recoverable
Client Sample ID: MW-16-02						Lab Sa	an	ple ID: 2	40-166571-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Sulfate	14		5.0	5.0	mg/L	5	_	9056A	Total/NA
Client Sample ID: MW-16-06						Lab Sa	an	nple ID: 2	40-166571-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	36000		1000	1000	ug/L	1	_	6020	Total
									Recoverable
Client Sample ID: MW-16-10						Lab Sa	an	ple ID: 2	40-166571-4
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Calcium	31000		1000	1000	ug/L	1	_	6020	Total
									Recoverable
Client Sample ID: DUP-01						Lab Sa	an	nple ID: 2	40-166571-5
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Calcium	42000		1000	1000	ug/L	1	_	6020	Total
									Recoverable
Client Sample ID: DUP-02						Lab Sa	an	nple ID: 2	40-166571-6
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Sulfate	14		5.0	5.0	mg/L	5	_	9056A	Total/NA
Client Sample ID: EB-01						Lab Sa	an	ple ID: 2	40-166571-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-166571-1

Matrix: Water

8

Lab Sample ID: 240-166571-1

Client Sample ID: MW-16-01 Date Collected: 05/09/22 10:02 Date Received: 05/13/22 08:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Calcium 40000 1000 1000 1000 05/16/22 12:00 05/17/22 20:10 1

Client: TRC Environmental Corpor Project/Site: CCR DTE Belle Rive	ration. r Power				Job ID: 240-16	6571-1
Client Sample ID: MW-16-0 Date Collected: 05/09/22 11:13 Date Received: 05/13/22 08:00	2			Lab Sample	ID: 240-166 Matrix:	571-2 Water
General Chemistry Analyte Sulfate	Result Qualifier	RL 5.0	MDL Unit	D Prepared	Analyzed	Dil Fac

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-166571-1

Matrix: Water

8

Lab Sample ID: 240-166571-3

Client Sample ID: MW-16-06 Date Collected: 05/09/22 12:20 Date Received: 05/13/22 08:00

Method: 6020 - Metals (ICP/MS) - Total Recoverable Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Calcium 36000 1000 1000 1000 05/16/22 12:00 05/17/22 20:12 1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-166571-1

Matrix: Water

8

Lab Sample ID: 240-166571-4

Client Sample ID: MW-16-10 Date Collected: 05/09/22 09:32 Date Received: 05/13/22 08:00

Method: 6020 - Metals (ICP/MS) - Total RecoverableAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacCalcium31000100010001000ug/LD05/16/22 12:0005/17/22 20:201

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-166571-1

Matrix: Water

5

8 9

Lab Sample ID: 240-166571-5

Client Sample ID: DUP-01 Date Collected: 05/09/22 00:00 Date Received: 05/13/22 08:00

Method: 6020 - Metals (ICP/MS	6) - Total Rec	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	42000		1000	1000	ug/L		05/16/22 12:00	05/17/22 20:22	1

Client: TRC Environmental Corpora Project/Site: CCR DTE Belle River	ation. Power	•			Job ID: 240-16	6571-1
Client Sample ID: DUP-02 Date Collected: 05/09/22 00:00 Date Received: 05/13/22 08:00				Lab Sample	ID: 240-166 Matrix	571-6 Water
General Chemistry Analyte Sulfate	Result Qualifier	RL 5.0	MDL Unit	D Prepared	Analyzed	Dil Fac

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power Job ID: 240-166571-1

Client Sample ID: EB-01 Date Collected: 05/09/22 09:55 Date Received: 05/13/22 08:00

Lab Sample ID: 240-166571-7 Matrix: Water

Matrix: Water

8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	1000	ug/L		05/16/22 12:00	05/17/22 20:24	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
0.16.1			10	1.0	ma/l			05/10/22 10:09	1

Job ID: 240-166571-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-526629/1-4 Matrix: Water Analysis Batch: 526903										Clie F	ent Samp Prep Type	ole ID: Metho e: Total Reco Prep Batch:	d Blank verable 526629
Analyta	MB	MB		ы		мы	Unit		Б		ropored	Applyrod	
	1000			1000		1000				05/1	6/22 12:00	05/17/22 10:23	
	1000	0		1000		1000	uy/L			03/1	0/22 12.00	03/11/22 19.23	Į
Lab Sample ID: LCS 240-526629/3-	A							CI	ient	Sar	nple ID:	Lab Control	Sample
Matrix: Water										P	· Prep Type	e: Total Reco	verable
Analysis Batch: 526903												Prep Batch:	526629
			Spike		LCS	LCS	;					%Rec	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Calcium			25000		24000			ug/L			96	80 - 120	
Method: 9056A - Anions, Ion C Lab Sample ID: MB 240-526998/3 Matrix: Water	Chrom	natogra	phy							Clie	ent Samp	ole ID: Metho Prep Type: T	d Blank otal/NA
Analysis Batch: 526998													
	MB	MB											
Analyte	Result	Qualifier		RL		MDL	Unit		D	P	repared	Analyzed	Dil Fac
Sulfate	1.0	U		1.0		1.0	mg/L					05/19/22 00:22	1
Lab Sample ID: LCS 240-526998/4 Matrix: Water Analysis Batch: 526998								CI	ient	Sar	nple ID:	Lab Control Prep Type: T	Sample otal/NA
-			Spike		LCS	LCS	;					%Rec	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Sulfate			50.0		51.5			mg/L			103	90 - 110	

10

Metals

Prep Batch: 526629

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-166571-1	MW-16-01	Total Recoverable	Water	3005A	
240-166571-3	MW-16-06	Total Recoverable	Water	3005A	
240-166571-4	MW-16-10	Total Recoverable	Water	3005A	
240-166571-5	DUP-01	Total Recoverable	Water	3005A	
240-166571-7	EB-01	Total Recoverable	Water	3005A	
MB 240-526629/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-526629/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
Analysis Batch: 5269	903				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-166571-1	MW-16-01	Total Recoverable	Water	6020	526629
240-166571-3	MW-16-06	Total Recoverable	Water	6020	526629
240-166571-4	MW-16-10	Total Recoverable	Water	6020	526629
240-166571-5	DUP-01	Total Recoverable	Water	6020	526629
240-166571-7	EB-01	Total Recoverable	Water	6020	526629
MB 240-526629/1-A	Method Blank	Total Recoverable	Water	6020	526629
LCS 240-526629/3-A	Lab Control Sample	Total Recoverable	Water	6020	526629

General Chemistry

Analysis Batch: 526998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166571-2	MW-16-02	Total/NA	Water	9056A	
240-166571-6	DUP-02	Total/NA	Water	9056A	
240-166571-7	EB-01	Total/NA	Water	9056A	
MB 240-526998/3	Method Blank	Total/NA	Water	9056A	
LCS 240-526998/4	Lab Control Sample	Total/NA	Water	9056A	

9056A

Analysis

Total/NA

Client Sample	D: MW	/-16-01					Lab Sa	mple ID:	240-166571-1
Date Collected:	05/09/22 1	0:02							Matrix: Water
Date Received:	05/13/22 0	8:00							
	Batch	Batch	_	Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst		
Iotal Recoverable	Prep	3005A			526629	05/16/22 12:00	SHB	TAL CAN	
Iotal Recoverable	Analysis	6020		1	526903	05/17/22 20:10	AJC	TAL CAN	
Client Sample	D: MW	-16-02					Lab Sa	mple ID:	240-166571-2
Date Collected:	05/09/22 1	1:13							Matrix: Water
Date Received:	05/13/22 0	8:00							
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	9056A		5	526998	05/19/22 09:25	JMB	TAL CAN	
Client Sample	D: MW	-16-06					Lab Sa	mple ID:	240-166571-3
Date Collected	05/09/22 1	2.20							Matrix: Water
Date Received:	05/13/22 0	8:00							
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total Recoverable	Prep	3005A			526629	05/16/22 12:00	SHB	TAL CAN	
Total Recoverable	Analysis	6020		1	526903	05/17/22 20:12	AJC	TAL CAN	
Client Sample	אט י ט י	-16-10					Lah Sa	mnle ID:	240-166571-4
Date Collected:	05/09/22 0	9.32							Matrix: Water
Date Received:	05/13/22 0	8.00							
	Batch	Batch		Dilution	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total Recoverable	Prep	3005A			526629	05/16/22 12:00	SHB	TAL CAN	
Total Recoverable	Analysis	6020		1	526903	05/17/22 20:20	AJC	TAL CAN	
Client Sample	וווח יחו נ	2_01					Lah Sa	mnle ID.	240-166571-5
Data Collected:	05/00/22 0	0.00						imple ib.	Matrix: Wator
Date Received:	05/03/22 0	8.00							
	00/10/22 0	0.00							
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total Recoverable	Prep	3005A			526629	05/16/22 12:00	SHB	TAL CAN	
Total Recoverable	Analysis	6020		1	526903	05/17/22 20:22	AJC	TAL CAN	
Client Sample	וווח יחו מ	2_02					Lah Sa		240-166571-6
Date Collected:	05/00/22 0	0.00						unhie iD.	Matrix: Water
Date Received:	05/13/22 0	8.00							
	00/10/22 U								
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	

Eurofins Canton

TAL CAN

526998 05/19/22 09:47 JMB

5

Matrix: Water

Lab Sample ID: 240-166571-7

Client Sample ID: EB-01 Date Collected: 05/09/22 09:55 Date Received: 05/13/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			526629	05/16/22 12:00	SHB	TAL CAN
Total Recoverable	Analysis	6020		1	526903	05/17/22 20:24	AJC	TAL CAN
Total/NA	Analysis	9056A		1	526998	05/19/22 10:08	JMB	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Laboratory: Eurofins Canton

Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-23	
Connecticut	State	PH-0590	12-31-23	
Florida	NELAP	E87225	06-30-22	
Georgia	State	4062	02-23-22 *	
Illinois	NELAP	200004	07-31-22	
lowa	State	421	06-01-23	
Kentucky (UST)	State	112225	02-27-23	
Kentucky (WW)	State	KY98016	12-31-22	
Minnesota	NELAP	039-999-348	12-31-22	
Minnesota (Petrofund)	State	3506	08-01-23	
New Jersey	NELAP	OH001	06-30-22	
New York	NELAP	10975	04-01-23	
Ohio	State	8303	02-23-23	
Ohio VAP	State	CL0024	02-27-23	
Oregon	NELAP	4062	02-27-23	
Pennsylvania	NELAP	68-00340	08-31-22	
Texas	NELAP	T104704517-22-16	08-31-22	
Virginia	NELAP	11570	09-14-22	
Washington	State	C971	01-12-23	
West Virginia DEP	State	210	12-31-22	

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

Eurofins TestAmerica, Canton	Chain Chain c	of Custody Record	Curofins
		C . 16.1	America
North Canton, OH 44720-6900 phone 330.497.9396 fax 330.497.0772	Regulatory Program: Dw NPDES		ratories, Inc. d/b/a Eurofins TestAmerica
	Project Manager: Visce Swenits]	COC No:
Client Contact	Email: V Bue Mine to Thecomonies Lein S	ite Contact: Hew & Sch woil H Date: 5/ 10/22	of COCs
TRC Companies	Tel/Fax:	ab Contact: Krij Brocks Carrier: Reder	TALS Project #
1540 Eisenhower Place	Analysis Turnaround Time		Sampler:
Ann Arbor, MI, 48108	CALENDAR DAYS		For Lab Use Only:
property 234 971 700 Phone	TAT if different from Below Standard		Walk-in Client:
	2 weeks		Lab Sampling:
Project Natrie: UTE BREF BAB-UB 2022			
	1 day	2 2 2 7 7 7 7 7 7 7 7 7 7 7	TON SOLS 1 DOC
	Sample Sample # of # o	40-1665 7) 5 7) 7 70 100-10	
Sample Identification	Uate IIMe G=Grab) Matrix Cont. L	71 C	Sample Specific Notes:
MW-16-01	×1/17 (00× C FM + ×	hair	
MW-16-02	5/3/22 (1(3) (5 GW 1 A		No Calcium analysis mutter
MVV-16-06	5/3/21 120 G Gw 1 A	Custo	-
00 91 MW	5/0/23 (03) 6 64 1 1		
MANN 16-08 E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Hold pending month 03
MW-16-10	s/ioki 932 C GW W		Faul 16-03 F-
2022	5/9/12 - C FW		to Lot
	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		
2002	Station of the state		
EB-01	N ~ M ~ CCC while		
Preservation Used: 1= Ice. 2= HCI: 3= H2SO4: 4=HN	03: 5=NaOH: 6= Other 1, 4		
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? F the Comments Section if the lab is to dispose of the samp	Please List any EPA Waste Codes for the sample in ble.	Sample Disposal (A fee may be assessed if samples are retain	led longer than 1 month)
🗶 Non-Hazard 🛛 🗌 Flammable 🔄 Skin Irritant	🗌 Paison B	Return to Client Disposal by Lab	Months
Spečial Instructions/QC Requirements & Comments:			
Custody Seals Intact:	Custody Seal No.:	Cooler Temp. (°C): Obs'd: Corr'd:	Therm ID No.
Relinquished by: H. S. J. well	Company: Com	Received by: Company:	Date/Time: 5/w/22 1600
Relinquished by: TLC Storyr	Company: Co	Company: TPC	Date/Time 5-12-22 /1130
Relinquiched by	Company: TPC Sh2/27/1 3	Received in Laboratory by: Company.	Date/Time: 2112122 11377 av-
Pridel Filt allo	Chill O	P. A. F. F. T. Gorm No. CA	-C-WI-002, Rev. 4.35, dated 10/6/2020
and the second second	~ In the and	7 , 8 , 9 1(1) 1) 1)	6-13-22 OK CO

5/24/2022

Dur onno robannertea Canton Sample Receiper on abrantative	1.0910 # 11	(06.571			
Canton Facility					
Client <u>TR'C</u> Site Name	Cooler un	packed by:			
Cooler Received on $5-13-22$ Opened on $5-13-22$	Just	inH			
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier	Other				
Receipt After-hours: Drop-off Date/Time Storage Location					
 TestAmerica Cooler # Foam Box Client Cooler Box Other Packing material used: Bubble Wrap Foam Plastic Bag None Other COOLANT: Wet Cooler Blue Ice Dry Ice Water None Cooler temperature upon receipt See Multiple Cooler For IR GUN# IR-13 (CF 0.0 °C) Observed Cooler Temp °C Corrected Cooler Tem IR GUN# IR-15 (CF -0.7°C) Observed Cooler Temp °C Corrected Cooler Tem °C corrected Cooler So could all bottle sample sample send in the appropriate p	m emp. <u>O</u> <u>o</u> emp. No NA No NA No NA No No No No No No No No No No No No No	C C Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC grab/comp(VN)? H Strip Lot# <u>HC157842</u>			
 15. Were air bubbles >6 mm in any VOA vials? 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes 	No DA				
17. Was a LL Hg or Me Hg trip blank present?Yes	0				
Contacted PM Date by via Verbal V	oice Mail Oth	er			
Concerning					
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples pro	cessed by:			
19. SAMPLE CONDITION					
Sample(s) were received after the recommended holding	ng time had ex	xpired.			
Sample(s) were received	in a broken co	ontainer.			
Sample(s) were received with bubble >6 mm in	n diameter. (N	otify PM)			
20. SAMPLE PRESERVATION					
Sample(s) were fur	ther preserved	in the laboratory.			
Time preserved: Preservative(s) added/Lot number(s):					

WI-NC-099

Login Container Summary Report

240-166571

Temperature readings: _____

Client Sample ID	<u>Lab ID</u>	Container Type	<u>Cont</u> pH	<u>ainer</u> <u>Temp</u>	Preservative Added (mls) Lot #
MW-13-01	240-166571-A-1	Plastic 250ml - with Nitric Acid	<2		
MW-16-02	240-166571-A-2	Plastic 250ml - unpreserved			
MW-16-06	240-166571-A-3	Plastic 250ml - with Nitric Acid	<2		
MW-16-10	240-166571-A-4	Plastic 250ml - with Nitric Acid	<2		
DUP-01	240-166571-A-5	Plastic 250ml - with Nitric Acid	<2		
DUP-02	240-166571-A-6	Plastic 250ml - unpreserved			
EB-01	240-166571-A-7	Plastic 250ml - unpreserved			
EB-01	240-166571-B-7	Plastic 250ml - with Nitric Acid	<2		
🛟 eurofins

Environment Testing

5

ANALYTICAL REPORT

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

Laboratory Job ID: 240-174692-1

Client Project/Site: CCR DTE Belle River Power

For:

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

Attn: Mr. Vincent Buening

Meara

Authorized for release by: 10/31/2022 6:43:11 PM Patrick O'Meara, Manager of Project Management (330)966-5725 Patrick.O'Meara@et.eurofinsus.com

Designee for

LINKS

Review your project results through

EOL

Have a Question?

www.eurofinsus.com/Env

Visit us at:

Ask— The Expert Kris Brooks, Project Manager II (330)966-9790 Kris.Brooks@et.eurofinsus.com

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

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

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Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Qualifiers

Metals		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	_
General Che	mistry	5
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	6
Н	Sample was prepped or analyzed beyond the specified holding time	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		0
Abbreviation	These commonly used abbreviations may or may not be present in this report.	0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	0
%R	Percent Recovery	J
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

ML Minimum Level (Dioxin)

MPN Most Probable Number

MQL Method Quantitation Limit

 NC
 Not Calculated

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

NEG Negative / Absent

POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Job ID: 240-174692-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-174692-1

Receipt

The samples were received on 10/14/2022 @ 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Metals

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

General Chemistry

Method 2540C_Calcd: Reanalysis of the following sample was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. DUP-01 (240-174692-7) and DUP-02 (240-174692-8) Both sets of data are reported.

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

Method Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Job ID: 240-174692-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-174692-1	 MW-16-01	Water	10/12/22 09:36	10/14/22 10:00
240-174692-2	MW-16-02	Water	10/12/22 10:25	10/14/22 10:00
240-174692-3	MW-16-03	Water	10/12/22 11:23	10/14/22 10:00
240-174692-4	MW-16-04	Water	10/12/22 14:10	10/14/22 10:00
240-174692-5	MW-16-06	Water	10/12/22 14:45	10/14/22 10:00
240-174692-6	MW-16-09	Water	10/12/22 12:58	10/14/22 10:00
240-174692-7	DUP-01	Water	10/12/22 00:00	10/14/22 10:00
240-174692-8	DUP-02	Water	10/12/22 00:00	10/14/22 10:00

Detection Summary

Client Sample ID: MW-16-01

Lab Sample ID: 240-174692-1

Lab Sample ID: 240-174692-2

Analyte	Result Q	Qualifier RL	MDL	Unit	Dil Fac	DI	Method	Prep Type
Boron	950	100	57	ug/L	1	- (6010B	Total
								Recoverable
Calcium	43000	1000	1000	ug/L	1	6	6020	Total
								Recoverable
Iron	880	100	100	ug/L	1	6	6020	Total
								Recoverable
Chloride	450	5.0	5.0	mg/L	5	9	9056A	Total/NA
Fluoride	1.6	0.050	0.050	mg/L	1	9	9056A	Total/NA
Sulfate	35	1.0	1.0	mg/L	1	9	9056A	Total/NA
Total Dissolved Solids	880	20	20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Туре
Boron	1100		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	57000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	1100		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	350		5.0	5.0	mg/L	5		9056A	Total/NA
Fluoride	1.1		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	17		1.0	1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	720		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1000		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	33000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	710		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	570		10	10	mg/L	10		9056A	Total/NA
Fluoride	1.7		0.050	0.050	mg/L	1		9056A	Total/NA
Total Dissolved Solids	1100		20	20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-04

Lab Sample ID: 240-174692-4

Lab Sample ID: 240-174692-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1000		100	57	ug/L	1		6010B	Total
									Recoverable
Calcium	42000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	940		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	480		5.0	5.0	mg/L	5		9056A	Total/NA
Fluoride	1.6		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	26		1.0	1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	970		20	20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-16-06

4 5

6 7 8

Lab Sample ID: 240-174692-5

Lab Sample ID: 240-174692-6

Lab Sample ID: 240-174692-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1900		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	37000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	600		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	1600		20	20	mg/L	20		9056A	Total/NA
Fluoride	1.1		0.10	0.10	mg/L	2		9056A	Total/NA
Sulfate	2.8		2.0	2.0	mg/L	2		9056A	Total/NA
Total Dissolved Solids	2700		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-09

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1400		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	57000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	15000		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	950		10	10	mg/L	10		9056A	Total/NA
Fluoride	1.4		0.050	0.050	mg/L	1		9056A	Total/NA
Sulfate	13		1.0	1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	1600		40	40	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	34000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	730		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	590		10	10	mg/L	10		9056A	Total/NA
Fluoride	1.7		0.050	0.050	mg/L	1		9056A	Total/NA
Total Dissolved Solids	980	*+	20	20	mg/L	1		SM 2540C	Total/NA
Total Dissolved Solids - RA	1100	Н	20	20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 240-174692-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1900		100	57	ug/L	1	_	6010B	Total
									Recoverable
Calcium	39000		1000	1000	ug/L	1		6020	Total
									Recoverable
Iron	560		100	100	ug/L	1		6020	Total
									Recoverable
Chloride	1600		20	20	mg/L	20		9056A	Total/NA
Fluoride	1.1		0.10	0.10	mg/L	2		9056A	Total/NA
Sulfate	3.0		2.0	2.0	mg/L	2		9056A	Total/NA
Total Dissolved Solids	2500	*+	50	50	mg/L	1		SM 2540C	Total/NA
Total Dissolved Solids - RA	2700	н	50	50	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

0.050

1.0

20

0.050 mg/L

1.0 mg/L

20 mg/L

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Client Sample ID: MW-16-01 Date Collected: 10/12/22 09:36

Fluoride (SW846 9056A)

Sulfate (SW846 9056A)

Total Dissolved Solids (SM 2540C)

Job ID: 240-174692-1

Lab Sample ID: 240-174692-1

Analyzed

10/18/22 20:25

Analyzed

10/18/22 17:50

10/18/22 17:50

Analyzed

10/28/22 14:45

10/28/22 14:25

10/28/22 14:25

10/18/22 10:11

Matrix: Water

Dil Fac

Dil Fac

Dil Fac

1

1

1

5

1

1

1

8

Date Received: 10/14/22 10:0	0						
	tals (ICP) - To	tal Recovera	able				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
Boron	950		100	57	ug/L		10/17/22 12:00
_ Method: SW846 6020 - Meta	ls (ICP/MS) -	Total Recov	erable				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
Calcium	43000		1000	1000	ug/L		10/17/22 12:00
Iron	880		100	100	ug/L		10/17/22 12:00
General Chemistry							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
Chloride (SW846 9056A)	450		5.0	5.0	mg/L		

1.6

35

880

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Job ID: 240-174692-1

5

8 9

Lab Sample ID: 240-174692-2 Matrix: Water

Date Collected: 10/12/22 10:25 Date Received: 10/14/22 10:00

Client Sample ID: MW-16-02

Method: SW846 6010B - Metals	(ICP) - Tot	tal Recover	able						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	57	ug/L		10/17/22 12:00	10/18/22 20:55	1
Method: SW846 6020 - Metals (I	CP/MS) - ⁻	Total Recov	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	57000		1000	1000	ug/L		10/17/22 12:00	10/18/22 18:02	1
Iron	1100		100	100	ug/L		10/17/22 12:00	10/18/22 18:02	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	350		5.0	5.0	mg/L			10/28/22 15:25	5
Fluoride (SW846 9056A)	1.1		0.050	0.050	mg/L			10/28/22 15:05	1
Sulfate (SW846 9056A)	17		1.0	1.0	mg/L			10/28/22 15:05	1
Total Dissolved Solids (SM 2540C)	720		10	10	mg/L			10/18/22 10:11	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Job ID: 240-174692-1

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8 9

Lab Sample ID: 240-174692-3 Matrix: Water

Date Collected: 10/12/22 11:23 Date Received: 10/14/22 10:00

Client Sample ID: MW-16-03

Method: SW846 6010B - Metals	(ICP) - To	tal Recover	able						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1000		100	57	ug/L		10/17/22 12:00	10/18/22 20:59	1
Method: SW846 6020 - Metals (IG	CP/MS) - ⁻	Total Recov	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	33000		1000	1000	ug/L		10/17/22 12:00	10/18/22 18:04	1
Iron	710		100	100	ug/L		10/17/22 12:00	10/18/22 18:04	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	570		10	10	mg/L			10/28/22 16:05	10
Fluoride (SW846 9056A)	1.7		0.050	0.050	mg/L			10/28/22 15:45	1
Sulfate (SW846 9056A)	1.0	U	1.0	1.0	mg/L			10/28/22 15:45	1
Total Dissolved Solids (SM 2540C)	1100		20	20	mg/L			10/18/22 10:11	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Job ID: 240-174692-1

Lab Sample ID: 240-174692-4

Matrix: Water

5 6

Dale	conected.	10/12/22	14.10
Date	Received:	10/14/22	10:00

Client Sample ID: MW-16-04

Method: SW846 6010B - Metals	(ICP) - To	tal Recover	able						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1000		100	57	ug/L		10/17/22 12:00	10/18/22 21:03	1
Method: SW846 6020 - Metals (I	CP/MS) - ⁻	Total Recov	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	42000		1000	1000	ug/L		10/17/22 12:00	10/18/22 18:12	1
Iron	940		100	100	ug/L		10/17/22 12:00	10/18/22 18:12	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	480		5.0	5.0	mg/L			10/28/22 16:46	5
Fluoride (SW846 9056A)	1.6		0.050	0.050	mg/L			10/28/22 16:26	1
Sulfate (SW846 9056A)	26		1.0	1.0	mg/L			10/28/22 16:26	1
Total Dissolved Solids (SM 2540C)	970		20	20	mg/L			10/18/22 10:11	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Job ID: 240-174692-1

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Lab Sample ID: 240-174692-5 Matrix: Water

Date Collected: 10/12/22 14:45 Date Received: 10/14/22 10:00

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Client Sample ID: MW-16-06

Method: SW846 6010B - Metals	(ICP) - Tot	tal Recover	able						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1900		100	57	ug/L		10/17/22 12:00	10/18/22 21:08	1
	CP/MS) - ⁻	Total Recov	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	37000		1000	1000	ug/L		10/17/22 12:00	10/18/22 18:14	1
Iron	600		100	100	ug/L		10/17/22 12:00	10/18/22 18:14	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	1600		20	20	mg/L			10/28/22 18:06	20
Fluoride (SW846 9056A)	1.1		0.10	0.10	mg/L			10/28/22 17:06	2
Sulfate (SW846 9056A)	2.8		2.0	2.0	mg/L			10/28/22 17:06	2
Total Dissolved Solids (SM 2540C)	2700		50	50	mg/L			10/18/22 10:11	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Job ID: 240-174692-1

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8 9

Lab Sample ID: 240-174692-6 Matrix: Water

Date Collected: 10/12/22 12:58 Date Received: 10/14/22 10:00

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Client Sample ID: MW-16-09

Method: SW846 6010B - Metals	(ICP) - Tot	tal Recover	able						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1400		100	57	ug/L		10/17/22 12:00	10/18/22 21:12	1
Method: SW846 6020 - Metals (I	CP/MS) - ⁻	Total Recov	erable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	57000		1000	1000	ug/L		10/17/22 12:00	10/18/22 18:17	1
Iron	15000		100	100	ug/L		10/17/22 12:00	10/18/22 18:17	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	950		10	10	mg/L			10/28/22 18:46	10
Fluoride (SW846 9056A)	1.4		0.050	0.050	mg/L			10/28/22 18:26	1
Sulfate (SW846 9056A)	13		1.0	1.0	mg/L			10/28/22 18:26	1
Total Dissolved Solids (SM 2540C)	1600		40	40	mg/L			10/18/22 10:11	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Client Sample ID: DUP-01 Date Collected: 10/12/22 00:00

Date Received: 10/14/22 10:00

Job ID: 240-174692-1

Lab Sample ID: 240-174692-7

Matrix: Water

Method: SW846 6010B - Metals	s (ICP) - Tot	tal Recover	able						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	57	ug/L		10/17/22 12:00	10/18/22 21:17	1
Method: SW846 6020 - Metals	(ICP/MS) - 1	Total Recov	verable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	34000		1000	1000	ug/L		10/17/22 12:00	10/18/22 18:19	1
Iron	730		100	100	ug/L		10/17/22 12:00	10/18/22 18:19	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	590		10	10	mg/L			10/27/22 01:11	10
Fluoride (SW846 9056A)	1.7		0.050	0.050	mg/L			10/27/22 00:51	1
Sulfate (SW846 9056A)	1.0	U	1.0	1.0	mg/L			10/27/22 00:51	1
Total Dissolved Solids (SM 2540C)	980	*+	20	20	mg/L			10/19/22 10:11	1
General Chemistry - RA									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100	н	20	20	ma/L			10/28/22 19:21	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Client Sample ID: DUP-02

Date Collected: 10/12/22 00:00

Date Received: 10/14/22 10:00

Job ID: 240-174692-1

Lab Sample ID: 240-174692-8 Matrix: Water

Matrix: Water

4 5 6

_ Method: SW846 6010B - Metals	(ICP) - Tot	tal Recove	rable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1900		100	57	ug/L		10/17/22 12:00	10/18/22 21:21	1
	ICP/MS) - 1	Total Recov	verable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	39000		1000	1000	ug/L		10/17/22 12:00	10/18/22 18:22	1
Iron	560		100	100	ug/L		10/17/22 12:00	10/18/22 18:22	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	1600		20	20	mg/L			10/27/22 00:31	20
Fluoride (SW846 9056A)	1.1		0.10	0.10	mg/L			10/27/22 00:11	2
Sulfate (SW846 9056A)	3.0		2.0	2.0	mg/L			10/27/22 00:11	2
Total Dissolved Solids (SM 2540C)	2500	*+	50	50	mg/L			10/19/22 10:11	1
 General Chemistry - RA									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2700	н	50	50	mg/L			10/28/22 19:21	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-54 Matrix: Water Analysis Batch: 547596	7380/1-A									CI	ie P	nt Samp rep Type	le ID: M e: Total I Prep Ba	ethod Recov atch: 5	Blank erable 647380
Analysia	Π.	MB	MB					11		_	n		Anaha	!	
Analyte	Ke	sult	Qualifier					Unit		$\frac{D}{10}$	Pr	epared	Analyz	2ed	
		100	0		100		57	uy/L		10	/ 1 /	122 12.00	10/10/22	20.15	1
Lab Sample ID: LCS 240-5 Matrix: Water Analysis Batch: 547596	47380/2-A			Spike		LCS	LCS	5	Clie	ent Sa	an P	nple ID: rep Type	Lab Cor e: Total I Prep Ba %Rec	ntrol S Recov atch: 5	ample erable 647380
Analyte				Added		Result	Qua	lifier	Unit	D)	%Rec	Limits		
Boron				1000		997			ug/L			100	80 - 120		
Lab Sample ID: 240-174692 Matrix: Water	2-1 MS										Ρ	Client Sa rep Type	ample II e: Total I	D: MW Recov	-16-01 erable
Analysis Batch: 547596													Prep Ba	atch: 5	47380
	Sample	San	nple	Spike		MS	MS						%Rec		
Analyte	Result	Qua	alifier	Added		Result	Qua	lifier	Unit)	%Rec	Limits		
Boron	950			1000		1960			ug/L			101	75 - 125		
Lab Sample ID: 240-174692 Matrix: Water Analysis Batch: 547596	2-1 MSD										Ρ	Client Sa rep Type	ample II e: Total I Prep Ba	D: MW Recov atch: 5	-16-01 erable 647380
	Sample	San	nple	Spike		MSD	MS	כ					%Rec		RPD
Analyte	Result	Qua	alifier	Added		Result	Qua	lifier	Unit)	%Rec	Limits	RPD	Limit
Boron	950			1000		2060			ug/L			111	/5 - 125	5	20
Method: 6020 - Metals (ICP/MS)														
Lab Sample ID: MB 240-54 Matrix: Water Analysis Batch: 547691	7380/1-A	МВ	МВ							CI	ie P	nt Samp rep Type	le ID: M e: Total I Prep Ba	ethod Recov atch: 5	Blank erable 47380
Analyte	Re	sult	Qualifier		RL		MDL	Unit		D	Pr	epared	Analyz	zed	Dil Fac
Calcium	,	1000	U		1000		1000	ug/L		10	/17	7/22 12:00	10/18/22	17:45	1
Iron		100	U		100		100	ug/L		10	/17	7/22 12:00	10/18/22	17:45	1
Lab Sample ID: LCS 240-5 Matrix: Water Analysis Batch: 547691	47380/3-A			Spike		LCS	LCS	ì	Clie	ent Sa	an P	nple ID: rep Type	Lab Cor e: Total I Prep Ba %Rec	ntrol S Recov atch: 5	ample erable 647380
Analyte				Added		Result	Qua	lifier	Unit	D)	%Rec	Limits		
Calcium				25000		25100			ug/L			100	80 - 120		
Iron				5000		4990			ug/L			100	80 - 120		
 Lah Sample ID: 240-17469'	2-1 MS											Client S	amnio II	או איר	-16-01
Matrix: Water											Ρ	rep Type	e: Total	Recov	erable
Analysis Batch: 547691													Prep Ba	atch: 5	47380
,	Sample	San	nple	Spike		MS	MS						%Rec		
Analyte	Result	Qua	alifier	Added		Result	Qua	lifier	Unit	C)	%Rec	Limits		
Calcium	43000			25000		67600			ug/L			98	75 - 125		
Iron	880			5000		6060			ug/L			104	75 - 125		

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: 240-174692 Matrix: Water	ab Sample ID: 240-174692-1 MSD /atrix: Water Analysis Batch: 547691									D: MW- Recove	16-01 rable
Analysis Batch: 54/691	Sample	Sample	Spike	MSD	MSD				Prep Ва %Rec	itch: 54	1/380 RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	43000		25000	68800		ug/L		102	75 - 125	2	20
Iron	880		5000	6070		ug/L		104	75 - 125	0	20
Method: 9056A - Anions	s, Ion Ch	romatogi	raphy								
Lab Sample ID: MB 240-54	8696/3						Clie	ent San	nple ID: M	ethod l	Blank

Matrix: Water Analysis Batch: 548696

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	1.0	mg/L			10/28/22 06:02	1
Fluoride	0.050	U	0.050	0.050	mg/L			10/28/22 06:02	1
Sulfate	1.0	U	1.0	1.0	mg/L			10/28/22 06:02	1

Lab Sample ID: LCS 240-548696/4 **Matrix: Water** Analysis Batch: 548696

	Spi	ke LCS	LCS			%Rec	
Analyte	Add	ed Result	Qualifier U	nit D	%Rec	Limits	
Chloride	50	.0 50.2	m	ng/L	100	90 - 110	
Fluoride	2.	50 2.60	m	ng/L	104	90 - 110	
Sulfate	50	.0 51.7	m	ng/L	103	90 - 110	

Lab Sample ID: MB 240-548701/3 Matrix: Water

Analysis Batch: 548701

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	1.0	mg/L			10/26/22 23:30	1
Fluoride	0.050	U	0.050	0.050	mg/L			10/26/22 23:30	1
Sulfate	1.0	U	1.0	1.0	mg/L			10/26/22 23:30	1

Lab Sample ID: LCS 240-548701/4 Matrix: Water

matri	^ . •	ator	
Analy	ysis	Batch:	548701

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	49.6		mg/L		99	90 - 110	
Fluoride	2.50	2.56		mg/L		102	90 - 110	
Sulfate	50.0	51.4		mg/L		103	90 - 110	

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

Lab Sample ID: MB 240-547564/1 Matrix: Water Analysis Batch: 547564						(Client Sam	ple ID: Methoo Prep Type: To	l Blank otal/NA
-	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	10	mg/L			10/18/22 10:11	1

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

QC Sample Results

Job ID: 240-174692-1

7 8 9

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

Lab Sample ID: LCS 240-54 Matrix: Water	17564/2						Cli	ent	Sar	nple ID	: Lab Contro Prep Type	ol Sa : Tot	ample tal/NA
Analysis Batch: 547564			Quilles		1.00	1.00					0/ Data		
Analuto			Spike		LCS	LCS	Unit		Р	% Poc	%Rec		
Total Dissolved Solids			493		483	Quaimer	mg/L		-	98	80 - 120		
 _ ab Sample ID: 240 174603										Client	Sample ID: I		16.00
Matrix: Water	-6 D0									Client	Prep Type	: To	tal/NA
Analysis Batch: 547564													
	Sample	Sample			DU	DU							RPD
Analyte	Result	Qualifier			Result	Qualifier	Unit		D		I	RPD	Limit
Total Dissolved Solids	1600				1630		mg/L					0.2	20
Lab Sample ID: MB 240-54	7745/1								Clie	ent Sam	ple ID: Meth	od	Blank
Matrix: Water											Prep Type	To	tal/NA
Analysis Batch: 547745													
		MB MB											
Analyte	Re	esult Quali	fier	RL		MDL Unit		D	P	repared	Analyzed		Dil Fac
Total Dissolved Solids		10 U		10		10 mg/L					10/19/22 10:	11	1
Lab Sample ID: LCS 240-54	17745/2						Cli	ent	Sar	nnle ID	· Lab Contro	ol Sa	ample
Matrix: Water							•		oui	inpio in	Prep Type	To	tal/NA
Analysis Batch: 547745													
·····,···			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits		
Total Dissolved Solids			500		796	*+	mg/L		_	159	80 - 120		
I ab Sample ID: MB 240-549	9374/1								Clie	ent Sam	nle ID: Meth	bod	Blank
Matrix: Water										un oum	Prep Type		tal/NA
Analysis Batch: 549374													
		MB MB											
Analyte	Re	sult Quali	fier	RL		MDL Unit		D	P	repared	Analyzed		Dil Fac
Total Dissolved Solids		10 U		10		10 mg/L					10/28/22 19:	21	1
Lab Sample ID: LCS 240-54	19374/2						Cli	ent	Sar	nple ID	: Lab Contro	ol Sa	ample
Matrix: Water											Prep Type	To	tal/NA
Analysis Batch: 549374													
			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits		
Total Dissolved Solids			388		377		mg/L		_	97	80 - 120		
Lab Sample ID: 240-174692	2-7 DU									Clie	nt Sample II): D	UP-01
Matrix: Water											Prep Type	To	tal/NA
Analysis Batch: 549374													
,	Sample	Sample			DU	DU							RPD
Analyte	Result	Qualifier			Result	Qualifier	Unit		D		I	RPD	Limit
Total Dissolved Solids	1100	Н			1080		mg/L		_			NC	20

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

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Prep Batch: 547380

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-174692-1	MW-16-01	Total Recoverable	Water	3005A	
240-174692-2	MW-16-02	Total Recoverable	Water	3005A	
240-174692-3	MW-16-03	Total Recoverable	Water	3005A	
240-174692-4	MW-16-04	Total Recoverable	Water	3005A	
240-174692-5	MW-16-06	Total Recoverable	Water	3005A	
240-174692-6	MW-16-09	Total Recoverable	Water	3005A	
240-174692-7	DUP-01	Total Recoverable	Water	3005A	
240-174692-8	DUP-02	Total Recoverable	Water	3005A	
MB 240-547380/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-547380/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-547380/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-174692-1 MS	MW-16-01	Total Recoverable	Water	3005A	
240-174692-1 MS	MW-16-01	Total Recoverable	Water	3005A	
240-174692-1 MSD	MW-16-01	Total Recoverable	Water	3005A	
240-174692-1 MSD	MW-16-01	Total Recoverable	Water	3005A	

Analysis Batch: 547596

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-174692-1	MW-16-01	Total Recoverable	Water	6010B	547380
240-174692-2	MW-16-02	Total Recoverable	Water	6010B	547380
240-174692-3	MW-16-03	Total Recoverable	Water	6010B	547380
240-174692-4	MW-16-04	Total Recoverable	Water	6010B	547380
240-174692-5	MW-16-06	Total Recoverable	Water	6010B	547380
240-174692-6	MW-16-09	Total Recoverable	Water	6010B	547380
240-174692-7	DUP-01	Total Recoverable	Water	6010B	547380
240-174692-8	DUP-02	Total Recoverable	Water	6010B	547380
MB 240-547380/1-A	Method Blank	Total Recoverable	Water	6010B	547380
LCS 240-547380/2-A	Lab Control Sample	Total Recoverable	Water	6010B	547380
240-174692-1 MS	MW-16-01	Total Recoverable	Water	6010B	547380
240-174692-1 MSD	MW-16-01	Total Recoverable	Water	6010B	547380

Analysis Batch: 547691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174692-1	MW-16-01	Total Recoverable	Water	6020	547380
240-174692-2	MW-16-02	Total Recoverable	Water	6020	547380
240-174692-3	MW-16-03	Total Recoverable	Water	6020	547380
240-174692-4	MW-16-04	Total Recoverable	Water	6020	547380
240-174692-5	MW-16-06	Total Recoverable	Water	6020	547380
240-174692-6	MW-16-09	Total Recoverable	Water	6020	547380
240-174692-7	DUP-01	Total Recoverable	Water	6020	547380
240-174692-8	DUP-02	Total Recoverable	Water	6020	547380
MB 240-547380/1-A	Method Blank	Total Recoverable	Water	6020	547380
LCS 240-547380/3-A	Lab Control Sample	Total Recoverable	Water	6020	547380
240-174692-1 MS	MW-16-01	Total Recoverable	Water	6020	547380
240-174692-1 MSD	MW-16-01	Total Recoverable	Water	6020	547380

General Chemistry

Analysis Batch: 547564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174692-1	MW-16-01	Total/NA	Water	SM 2540C	

QC Association Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

General Chemistry (Continued)

Analysis Batch: 547564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-174692-3	MW-16-02 MW-16-03	Total/NA	Water	SM 2540C	
240-174692-4	MW-16-04	Total/NA	Water	SM 2540C	
240-174692-5	MW-16-06	Total/NA	Water	SM 2540C	
240-174692-6	MW-16-09	Total/NA	Water	SM 2540C	
MB 240-547564/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-547564/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-174692-6 DU	MW-16-09	Total/NA	Water	SM 2540C	

Analysis Batch: 547745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
240-174692-7	DUP-01	Total/NA	Water	SM 2540C
240-174692-8	DUP-02	Total/NA	Water	SM 2540C
MB 240-547745/1	Method Blank	Total/NA	Water	SM 2540C
LCS 240-547745/2	Lab Control Sample	Total/NA	Water	SM 2540C

Analysis Batch: 548696

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-174692-1	MW-16-01	Total/NA	Water	9056A	
240-174692-1	MW-16-01	Total/NA	Water	9056A	
240-174692-2	MW-16-02	Total/NA	Water	9056A	
240-174692-2	MW-16-02	Total/NA	Water	9056A	
240-174692-3	MW-16-03	Total/NA	Water	9056A	
240-174692-3	MW-16-03	Total/NA	Water	9056A	
240-174692-4	MW-16-04	Total/NA	Water	9056A	
240-174692-4	MW-16-04	Total/NA	Water	9056A	
240-174692-5	MW-16-06	Total/NA	Water	9056A	
240-174692-5	MW-16-06	Total/NA	Water	9056A	
240-174692-6	MW-16-09	Total/NA	Water	9056A	
240-174692-6	MW-16-09	Total/NA	Water	9056A	
MB 240-548696/3	Method Blank	Total/NA	Water	9056A	
LCS 240-548696/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 548701

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-174692-7	DUP-01	Total/NA	Water	9056A	
240-174692-7	DUP-01	Total/NA	Water	9056A	
240-174692-8	DUP-02	Total/NA	Water	9056A	
240-174692-8	DUP-02	Total/NA	Water	9056A	
MB 240-548701/3	Method Blank	Total/NA	Water	9056A	
LCS 240-548701/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 549374

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-174692-7 - RA	DUP-01	Total/NA	Water	SM 2540C	
240-174692-8 - RA	DUP-02	Total/NA	Water	SM 2540C	
MB 240-549374/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-549374/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-174692-7 DU	DUP-01	Total/NA	Water	SM 2540C	

Client Sample ID: MW-16-01 Date Collected: 10/12/22 09:36 Date Received: 10/14/22 10:00

-	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547596	KLC	EET CAN	10/18/22 20:25
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 17:50
Total/NA	Analysis	9056A		1	548696	JWW	EET CAN	10/28/22 14:25
Total/NA	Analysis	9056A		5	548696	JWW	EET CAN	10/28/22 14:45
Total/NA	Analysis	SM 2540C		1	547564	MS	EET CAN	10/18/22 10:11

Client Sample ID: MW-16-02 Date Collected: 10/12/22 10:25

Date Received: 10/14/22 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547596	KLC	EET CAN	10/18/22 20:55
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 18:02
Total/NA	Analysis	9056A		1	548696	JWW	EET CAN	10/28/22 15:05
Total/NA	Analysis	9056A		5	548696	JWW	EET CAN	10/28/22 15:25
Total/NA	Analysis	SM 2540C		1	547564	MS	EET CAN	10/18/22 10:11

Client Sample ID: MW-16-03 Date Collected: 10/12/22 11:23 Date Received: 10/14/22 10:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst or Analyzed Lab 10/17/22 12:00 Total Recoverable Prep 3005A 547380 SHB EET CAN 6010B EET CAN 10/18/22 20:59 **Total Recoverable** Analysis 1 547596 KLC Prep Total Recoverable 3005A 547380 SHB EET CAN 10/17/22 12:00 **Total Recoverable** Analysis 6020 1 547691 DSH EET CAN 10/18/22 18:04 Total/NA 9056A EET CAN 10/28/22 15:45 Analysis 1 548696 JWW Total/NA Analysis 9056A 10 548696 JWW EET CAN 10/28/22 16:05 Total/NA SM 2540C 547564 MS FFT CAN 10/18/22 10:11 Analysis 1

Client Sample ID: MW-16-04 Date Collected: 10/12/22 14:10 Date Received: 10/14/22 10:00

-	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547596	KLC	EET CAN	10/18/22 21:03
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 18:12
Total/NA	Analysis	9056A		1	548696	JWW	EET CAN	10/28/22 16:26

Lab Sample ID: 240-174692-2

Lab Sample ID: 240-174692-3

Matrix: Water

Lab Sample ID: 240-174692-4 Matrix: Water

Eurofins Canton

Job ID: 240-174692-1

Matrix: Water

Matrix: Water

Lab Sample ID: 240-174692-1

Client Sample ID: MW-16-04 Date Collected: 10/12/22 14:10 Date Received: 10/14/22 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Iotal/NA	Analysis	9056A		5	548696	JVVVV	EETCAN	10/26/22 10:40
Total/NA	Analysis	SM 2540C		1	547564	MS	EET CAN	10/18/22 10:11

Client Sample ID: MW-16-06 Date Collected: 10/12/22 14:45 Date Received: 10/14/22 10:00

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547596	KLC	EET CAN	10/18/22 21:08
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 18:14
Total/NA	Analysis	9056A		2	548696	JWW	EET CAN	10/28/22 17:06
Total/NA	Analysis	9056A		20	548696	JWW	EET CAN	10/28/22 18:06
Total/NA	Analysis	SM 2540C		1	547564	MS	EET CAN	10/18/22 10:11

Client Sample ID: MW-16-09 Date Collected: 10/12/22 12:58 Date Received: 10/14/22 10:00

Γ	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547596	KLC	EET CAN	10/18/22 21:12
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 18:17
Total/NA	Analysis	9056A		1	548696	JWW	EET CAN	10/28/22 18:26
Total/NA	Analysis	9056A		10	548696	JWW	EET CAN	10/28/22 18:46
Total/NA	Analysis	SM 2540C		1	547564	MS	EET CAN	10/18/22 10:11

Client Sample ID: DUP-01 Date Collected: 10/12/22 00:00 Date Received: 10/14/22 10:00

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547596	KLC	EET CAN	10/18/22 21:17
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 18:19
Total/NA	Analysis	9056A		1	548701	JWW	EET CAN	10/27/22 00:51
Total/NA	Analysis	9056A		10	548701	JWW	EET CAN	10/27/22 01:11
Total/NA	Analysis	SM 2540C		1	547745	MS	EET CAN	10/19/22 10:11
Total/NA	Analysis	SM 2540C	RA	1	549374	JWW	EET CAN	10/28/22 19:21

Eurofins Canton

Lab Sample ID: 240-174692-4

Lab Sample ID: 240-174692-5

Lab Sample ID: 240-174692-6

Lab Sample ID: 240-174692-7

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Client Sample ID: DUP-02 Date Collected: 10/12/22 00:00 Date Received: 10/14/22 10:00

Lab Sample ID: 240-174692-8 Matrix: Water

-	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6010B		1	547596	KLC	EET CAN	10/18/22 21:21
Total Recoverable	Prep	3005A			547380	SHB	EET CAN	10/17/22 12:00
Total Recoverable	Analysis	6020		1	547691	DSH	EET CAN	10/18/22 18:22
Total/NA	Analysis	9056A		2	548701	JWW	EET CAN	10/27/22 00:11
Total/NA	Analysis	9056A		20	548701	JWW	EET CAN	10/27/22 00:31
Total/NA	Analysis	SM 2540C		1	547745	MS	EET CAN	10/19/22 10:11
Total/NA	Analysis	SM 2540C	RA	1	549374	JWW	EET CAN	10/28/22 19:21

Laboratory References:

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

11 12 13

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power

Laboratory: Eurofins Canton

All accreditations/certifications held	by this laboratory are listed. Not all ac	ccreditations/certifications are applicable t	o this report.	3
Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-23	
Connecticut	State	PH-0590	12-31-23	5
Florida	NELAP	E87225	06-30-23	
Georgia	State	4062	02-27-23	
Illinois	NELAP	200004	07-31-23	
lowa	State	421	06-01-23	
Kentucky (UST)	State	112225	02-27-23	
Kentucky (WW)	State	KY98016	12-31-22	8
Minnesota	NELAP	039-999-348	12-31-22	
Minnesota (Petrofund)	State	3506	08-01-23	Q
New Jersey	NELAP	OH001	06-30-23	3
New York	NELAP	10975	04-01-23	
Ohio	State	8303	02-27-23	
Ohio VAP	State	CL0024	02-27-23	
Oregon	NELAP	4062	02-27-23	
Pennsylvania	NELAP	68-00340	08-31-23	10
Texas	NELAP	T104704517-22-17	08-31-23	12
Virginia	NELAP	460175	09-14-23	
Washington	State	C971	01-12-23	13
West Virginia DEP	State	210	12-31-22	

Eurofins Canton 180 S. Van Buren Avenue Barberton. OH 44203 Phone (330) 497-3956 Phone (330) 497-077	N.0//0	shain e	of Cus	stody F	kecord	M	ICHIGAN 190	3	💸 eurofins	Environment Testing Amenca
Client Information	Sample	M	135	Lab Bro	oks. Kris M		Camer Tracki	ng No(s):	COC No 240-03723-331	
Client Contact: Jacob Krenz	Phone:	6 N 3	216	E-M	Brooks@E	urofinset.com	State of Ongi		Page: Page: Page 1 of 2	1.74
Company: TRC Environmental Corporation.			DISMA			A	nalvsis Requested		lob # dol	
Address: 1540 Eisenhower Place	Due Date Requeste	÷			et				Preservation Col	les:
Clty: Ann Arbor	TAT Requested (da	ys):			e Sulfa	•			A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State. Zip: MI, 48108-7080	Compilance Projec	t: A Yes	A No		pinol				D - Nithic Acid E - NaHSO4	P = Na204S Q - Na2SO3
Phone: 313-971-7080(Tel) 313-971-9022(Fax)	PO#: 179971 - 2022				(1 (1)				F - MeOH G - Amchlor H - Ascorbio Acid	R - Na2S203 S = H2SO4 T TEP Participation
Email: JKrenz@trccompanies.com	WO #: 370029.0003 P1	T2			D CHI9		240	\$	1 - Ice J - Di Water	U - Acetone V - MCAA
Project Name CCR DTE Belle River Power	Project # 24016463				eA_28		-1746		K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site Michigan	SSOW#:				906 'SC A) GS Idwes	Ca, Fe	592 C		Other:	
Sample Identification	Samole Date	Sample Time	Sample Type (C=comp, G=crah)	Matrix (www.ener, B=solid, O=wasteioli,	benatii7 biel M\&M mohe 17 bols2_00421	0209 '98 8010	hain of Cus	nedmuń isto		
	X	X	Preserva	ation Code:		• •	tody		opecial I	structions/Note:
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MW-16-02	(.)	500	0	Water	1					
MW-16-03	(11)	(1)	U	Water	425	4				
MW-16-04	11 11	1410	9	Water	+ 2 2	+	+	100		
MW-16-05				Water						
MW-16-06	10/2/22	1-1-1	C	Water	NN X	×.				
MW-16-07				Water						
MW-16-08				Water						
MW-16-09	<i>clulu</i>	1350	J	Water	+20	+				
MW-16-10				Water		•				
MW-16-11A				Water						
Possible Hazard Identification		wn	Radiological		Sample	DIsposal (A	fee may be assessed if.	samples are retain	ed longer than 1 live For	month) Months
Deliverable Requested: I, II, II, IV, Other (specify)					Special	Instructions/C	IC Requirements:			
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resinquismed by Add Ballonuished but	Date/Time 3/3	Nel .	2	Company	2 and a	Coller State	llum	Date Ty-72	10:00	Coppediat
. An navising the second se	Date/Time:			Company	Rece	eived by:		Date/Time		Company
Custody Seals Intact: Custody Seal No. Δ Yes Δ No					Coot	er Temperature(s) °C and Other Remarks:			
										Ver: 01/16/2019

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	Eurofins Canton MICH 80 S. Van Buren Avenue arberton, OH 44203	HIGAN C	hain c	of Cus	tody R€	cord	MICH	HIGAJ 90	7	🐝 eurofins	Environment Testing America
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Multicity Multicity <t< td=""><td>client Information</td><td>いろうとう</td><td>CASS</td><td></td><td>Brook</td><td>s, Kris M</td><td></td><td>Camer Tracking</td><td>No(s):</td><td>COC No: 240-93723-331</td><td>42.2</td></t<>	client Information	いろうとう	CASS		Brook	s, Kris M		Camer Tracking	No(s):	COC No: 240-93723-331	42.2
The Network of Copyone Test Network Test Network <thet network<="" th=""> Test Network Test N</thet>	lient Contact: acob Krenz	Phone 400	331		E-Mail Kris.B	ooks@Eurofin	lset.com	State of Origin:		Page: Page 2 of 2	
Operation Description Description <thdescription< th=""> <thdescription< th=""> <</thdescription<></thdescription<>	ompany RC Environmental Corporation.			PWSID:			Analvsis Re	nuested		Job #	
Implementation Internation	ddress: 540 Eisenhower Place	Due Date Requeste				63				Preservation Co	des:
Mark Bar Contraction	aty unn Arbor	TAT Requested (da	(s):		Γ	eitus ,				A - HCL B - NaOH C 70 Activity	M - Hexane N - None
Normalization Normalioration Normaliar Normaliar </td <td>late, Zip. Al. 48108-7080</td> <td>Compliance Project</td> <td>A Yes</td> <td>No</td> <td>Τ</td> <td>əpµnoj</td> <td></td> <td></td> <td></td> <td>D - Nitric Acid E - NaHSO4</td> <td>P - Na204S Q - Na2SO3</td>	late, Zip. Al. 48108-7080	Compliance Project	A Yes	No	Τ	əpµnoj				D - Nitric Acid E - NaHSO4	P - Na204S Q - Na2SO3
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B-01 Water Mater Mater Mater Mater Mater Mater Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State Image: State <td>10-10-</td> <td>12/12/10</td> <td>1</td> <td>C</td> <td>vvater</td> <td>XXN</td> <td></td> <td></td> <td>2</td> <td></td> <td></td>	10-10-	12/12/10	1	C	vvater	XXN			2		
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											V CI. VII/ 10/ 2017

lient FRC Site Name		Cooler	unpacked by:
oper Received on 10-14-22 Opened on 10-14-22		IN	ander
edEx: 1 st Grd Exp UPS FAS Clipper Client Drop Off Eurofins C	Courier O	ther	
leceipt After-hours: Drop-off Date/Time Storage	e Location		
urofins Cooler # Foam Box Client Cooler Box Ot	ther		_
Packing material used: Bubble Wrap Foam Plastic Bag None	Other		
COOLANT: Wet Ice Blue Ice Dry Ice Water None			
L See Mult	tiple Cooler Fo	Trans 0.8	
IR GUN #IR-15 (CF 0.0°C) Observed Cooler Temp. C Correct	ted Cooler	Temp.	
Were temper/custody seels on the outside of the cooler(s)? If Ves Quantity	NO COULD I	s No	
-Were the seals on the outside of the cooler(s) signed & dated?	Ve	No NA	Tests that are not
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Ye	s No	checked for pH by Receiving
-Were tamper/custody seals intact and uncompromised?	X	NO NA	Receiving.
Shippers' packing slip attached to the cooler(s)?	Ye	No	VOAs
Did custody papers accompany the sample(s)?	Ve	No	Oil and Grease
Were the custody papers relinquished & signed in the appropriate place?	Ye	No	100
Was/were the person(s) who collected the samples clearly identified on the CO	0C? Ye	5 No	
Did all bottles arrive in good condition (Unbroken)?	Y	s No	
Eor each comple does the COC specify presentatives (2000), # of containers (NAD and	No Ch	forab/comp (N)?
Were correct bottle(c) used for the test(s) indicated?	IMN), and s	Mo	i grad/comp(1)(1):
1. Sufficient quantity received to perform indicated analyses?	Y	No	
2. Are these work share samples and all listed on the COC?	Ye	No.	
If yes, Questions 13-17 have been checked at the originating laboratory.		~	
3. Were all preserved sample(s) at the correct pH upon receipt?		No NA	pH Strip Lot# HC28679
4. Were VOAs on the COC?	Ye	No	
5. Were air bubbles >6 mm in any VOA vials? Larger than this.	Ye	NA NA	
6. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	V.	No	
	1c:	G	
7. Was a LL Hg or Me Hg trip blank present?	Yes		
7. Was a LL Hg or Me Hg trip blank present?	Yes	i 😡	Other
7. Was a LL Hg or Me Hg trip blank present?	ia Verbal V	i 😡	Other
7. Was a LL Hg or Me Hg trip blank present?	ia Verbal V	i 😡	Dther
7. Was a LL Hg or Me Hg trip blank present?	ia Verbal V	i Nd	Dither
7. Was a LL Hg or Me Hg trip blank present?	Yes	i Nd oice Mail C	Other
7. Was a LL Hg or Me Hg trip blank present?	Yes ia Verbal V	i Nd ioice Mail C Samples p	other rocessed by:
7. Was a LL Hg or Me Hg trip blank present? Contacted PM Date by vi Concerning	Yes	s Nd oice Mail C Samples p	other rocessed by:
7. Was a LL Hg or Me Hg trip blank present? Contacted PM Date by vi Concerning 8. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES I additional n Did Not Rectine EB-OL on Cham. Received a Field Filtered b- The	ia Verbal V	s Nd oice Mail C Samples p h.W - L(o	rocessed by:
7. Was a LL Hg or Me Hg trip blank present? ontacted PM Date by vi oncerning 8. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional n Did Not Pecture EB-OL on Onam. Received a Field Filtered b- Mu on (61.1	Yes ia Verbal V next page	s Nd oice Mail C Samples p	rocessed by: - 09 Net
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7. Was a LL Hg or Me Hg trip blank present?	ia Verbal V ia Verbal V next page	s Nd foice Mail C Samples p h. W - L(o ng time had in a broken h diameter. (expired. container. Notify PM)
7. Was a LL Hg or Me Hg trip blank present? Contacted PM Date by vi Concerning	received place >6 mm in	s Nd Foice Mail C Samples p h. W - L(s ng time had in a broken h diameter. (expired. container. Notify PM)
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7. Was a LL Hg or Me Hg trip blank present? Contacted PM Date by vi Concerning	rect page	socice Mail C Samples p h W - l(o) Ing time had in a broken o diameter. (expired. container. Notify PM)
7. Was a LL Hg or Me Hg trip blank present?	rect page	s Nd Foice Mail C Samples p h. W - L(s ng time had in a broken h diameter. (expired. container. Notify PM)

W7-NC-099

Login Container Summary Report

240-174692

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	<u>Conta</u> <u>pH</u>	<u>iiner</u> <u>Temp</u>	Preservative Added (mls) Lot #
MW-16-01	240-174692-B-1	Plastic 500ml - with Nitric Acid	<2		
MW-16-02	240-174692-В-2	Plastic 500ml - with Nitric Acid	<2		
MW-16-03	240-174692-B-3	Plastic 500ml - with Nitric Acid	<2		
MW-16-04	240-174692-B-4	Plastic 500ml - with Nitric Acid	<2		
MW-16-06	240-174692-B-5	Plastic 500ml - with Nitric Acid	<2		
MW-16-09	240-174692-В-6	Plastic 500ml - with Nitric Acid	<2		
MW-16-09	240-174692-C-6	Plastic 500ml - w/ Nitric - Dis.	<2		
DUP-01	240-174692-В-7	Plastic 500ml - with Nitric Acid	<2		
DUP-02	240-174692-В-8	Plastic 500ml - with Nitric Acid	<2		



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Vincent Buening TRC Environmental Corporation. 1540 Eisenhower Place Ann Arbor, Michigan 48108-7080 Generated 12/8/2022 8:11:14 PM

JOB DESCRIPTION

CCR DTE Belle River Power - Verification

JOB NUMBER

240-177377-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Canton

Job Notes

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

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

Sroohs

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

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Lab Chronicle	18
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Chain of Custody	20

Qualifiers

General Chemistry

Qualifiers		3
General Che	emistry	
Qualifier	Qualifier Description	4
U	indicates the analyte was analyzed for but not detected.	<i>c</i>
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	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	8
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	0
Dil Fac	Dilution Factor	9
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)	13
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

TNTC Too Numerous To Count

Job ID: 240-177377-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-177377-1

Receipt

The samples were received on 12/3/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3°C and 1.5°C

General Chemistry

Method 9056A_28D: The following sample was diluted due to the nature of the sample matrix: DUP-01 (240-177377-2). 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.

Method Summary

Client: TRC Environmental Corporation.

Project/Site	e: CCR DTE Belle River Power - Verification	50	D ID. 240-177377-1	
Method	Method Description	Protocol	Laboratory	
9056A	Anions, Ion Chromatography	SW846	EET CAN	
Protocol I SW846	References: 5 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods",	Third Edition, November 1986 And Its Update	s.	5

Protocol References:

Laboratory References:

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

Sample Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power - Verification

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-177377-1	MW-16-02	Water	12/01/22 10:14	12/03/22 08:00
240-177377-2	DUP-01	Water	12/01/22 00:00	12/03/22 08:00
240-177377-3	MW-16-07	Water	12/01/22 09:29	12/03/22 08:00
240-177377-4	MW-16-08	Water	11/30/22 14:37	12/03/22 08:00
240-177377-5	DUP-02	Water	12/01/22 00:00	12/03/22 08:00
240-177377-6	EB-01	Water	11/29/22 15:40	12/03/22 08:00
Detection Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power - Verification

Job ID: 240-177377-1

Client Sample ID: MW-16	6-02					Lab Sa	ample ID: 2	240-177377-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Туре
Sulfate	15		5.0	5.0	mg/L	5	9056A	Total/NA
Client Sample ID: DUP-0		Lab Sa	ample ID: 2	240-177377-2				
No Detections.								
Client Sample ID: MW-16	6-07					Lab Sa	ample ID: 2	240-177377-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
, mary to								
Chloride	1700		20	20	mg/L	20	9056A	Total/NA
Chloride Client Sample ID: MW-16	1700 6-08		20	20	mg/L	Lab Sa	9056A	Total/NA
Chloride Client Sample ID: MW-16 Analyte	1700 6-08 Result	Qualifier	20 RL	20 MDL	mg/L Unit	20 Lab Sa Dil Fac	9056A Ample ID: 2 D Method	Total/NA 240-177377-4 Prep Type
Chloride Client Sample ID: MW-16 Analyte Chloride	1700 6-08 <u>Result</u> 1900	Qualifier	20 RL 20	20 MDL 20	mg/L Unit mg/L	20 Lab Sa Dil Fac 20	- 9056A - 9056A - 9056A - 9056A	Total/NA 240-177377-4 Prep Type Total/NA
Chloride Client Sample ID: MW-16 Analyte Chloride Client Sample ID: DUP-0	1700 6-08 <u>Result</u> 1900	Qualifier	20 RL 20	20 MDL 20	mg/L Unit mg/L	20 Lab Sa Dil Fac 20 Lab Sa	 9056A ample ID: 2 <u>P</u> Method 9056A ample ID: 2 	Total/NA 240-177377-4 Prep Type Total/NA 240-177377-5
Chloride Client Sample ID: MW-16 Analyte Chloride Client Sample ID: DUP-0 Analyte	1700 6-08 <u>Result</u> 1900 02 Result	Qualifier	20 RL 20 RL	20 MDL 20 MDL	Unit mg/L Unit	20 Lab Sa 20 Lab Sa Dil Fac	 9056A ample ID: 2 ample iD: 2 9056A ample ID: 2 D Method 	Total/NA 240-177377-4 Prep Type Total/NA 240-177377-5 Prep Type

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Job ID: 240-177377-1

Client Sample ID: MW-16-0	lient Sample ID: MW-16-02							Lab Sample ID: 240-177377-1				
ate Collected: 12/01/22 10:14								Matrix	Water			
Date Received: 12/03/22 08:00												
General Chemistry	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analvzed	Dil Fac			
Sulfate (SW846 9056A)	15		5.0	5.0	mg/L			12/07/22 05:23	5			

Job ID: 240-177377-1

Client Sample ID: DUP-01 Date Collected: 12/01/22 00:00 Date Received: 12/03/22 08:00		La	b Sample	ID: 240-177 Matrix	'377-2 : Water				
General Chemistry Analyte	Result	Qualifier	<u></u>	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Sulfate (SW846 9056A)	2.0	U	2.0	2.0	mg/L			12/08/22 03:37	2

Job ID: 240-177377-1

ient Sample ID: MW-16-07						Lab Sample ID: 240-177377-3				
Date Collected: 12/01/22 09:29							-	Matrix	: Water	
Date Received: 12/03/22 08:00										
General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride (SW846 9056A)	1700		20	20	mg/L			12/07/22 06:43	20	

Job ID: 240-177377-1

Client Sample ID: MW-16-08 Date Collected: 11/30/22 14:37							Lab Sample ID: 240-177377-				
Date Received: 12/03/22 08:00								Watrix.	water		
General Chemistry	Decult	Qualifiar	ы	MDI	11-1-14	P	Drenered	Analyzad			
Chloride (SW846 9056A)	1900			20	mg/L	<u> </u>	Prepared	<u>12/07/22 07:03</u>	20		

Job ID: 240-177377-1

Client Sample ID: DUP-02	tent Sample ID: DUP-02							Lab Sample ID: 240-177377-				
ate Collected: 12/01/22 00:00								Matrix	: Water			
Date Received: 12/03/22 08:00												
General Chemistry												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride (SW846 9056A)	1800		20	20	mg/L			12/08/22 05:18	20			

Job ID: 240-177377-1

Client Sample ID: EB-01 Date Collected: 11/29/22 15:40 Date Received: 12/03/22 08:00						La	Lab Sample ID: 240-177377-6 Matrix: Water				
General Chemistry Analyte Chloride (SW846 9056A)	Result	Qualifier U	RL 1.0	MDL 1.0	Unit mg/L	<u>D</u>	Prepared	Analyzed	Dil Fac		

QC Sample Results

RL

1.0

1.0

Spike

Added

50.0

50.0

Spike

Added

250

250

MDL Unit

1.0 mg/L

1.0 mg/L

LCS LCS

MS MS

561

264

Result Qualifier

49.6

50.9

Result Qualifier

Lab Sample ID: MB 240-554788/3

Lab Sample ID: LCS 240-554788/4

Lab Sample ID: 240-177377-1 MS

Analysis Batch: 554788

Analysis Batch: 554788

Analysis Batch: 554788

Matrix: Water

Matrix: Water

Matrix: Water

Analyte

Chloride

Sulfate

Analyte

Chloride

Sulfate

Analyte

Chloride

Sulfate

Method: 9056A - Anions, Ion Chromatography

MB MB

1.0 U

1.0 U

Sample Sample

340

15

Result Qualifier

Result Qualifier

Job ID: 240-177377-1

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Analyzed

12/06/22 20:00

12/06/22 20:00

Client Sample ID: Lab Control Sample

%Rec

Limits

90 - 110

90 - 110

Prepared

D %Rec

99

102

99

D

Unit

mg/L

mg/L

mg/L

Dil Fac

1

1

9 10 11 12

		Client	Sample ID: MW-16-02 Prep Type: Total/NA	
			%Rec	
Unit	D	%Rec	Limits	
mg/L		88	80 - 120	

80 - 120

Client	Sample	e ID:	MW-	16-02
	Prep	Τνρε	e: Tota	al/NA

Lab Sample ID: 240-177377-1 MSD Matrix: Water Analysis Batch: 554788

Analysis Baton. 004100											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	340		250	559		mg/L		87	80 - 120	0	15
Sulfate	15		250	264		mg/L		100	80 - 120	0	15

Lab Sample ID: MB 240-554 Matrix: Water Analysis Batch: 554983	ab Sample ID: MB 240-554983/36 latrix: Water nalysis Batch: 554983 MB MB						Client Sam	ple ID: Method Prep Type: To	l Blank otal/NA
·	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	1.0	mg/L			12/08/22 02:57	1
Sulfate	1.0	U	1.0	1.0	mg/L			12/08/22 02:57	1
Lab Sample ID: LCS 240-554983/37 Matrix: Water Analysis Batch: 554983						Client	Sample ID:	Lab Control S Prep Type: To	Sample otal/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	50.0	50.0		mg/L		100	90 - 110	
Sulfate	50.0	51.3		ma/l		103	90 - 110	

Lab Sample ID: 240-177377-2 MS

Matrix: Water

Analysis Batch: 554983										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Sulfate	2.0	U	100	101		mg/L		101	80 - 120	 -

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

QC Sample Results

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power - Verification Job ID: 240-177377-1

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

Lab Sample ID: 240-177377-2 MSD Matrix: Water						Clie	nt Sample Prep Ty	ID: DU pe: Tot	JP-01 al/NA		
Analysis Batch: 554983											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Sulfate	2.0	U	100	101		mg/L		101	80 - 120	0	15

Eurofins Canton

QC Association Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power - Verification

General Chemistry

Analysis Batch: 554788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-177377-1	MW-16-02	Total/NA	Water	9056A	
240-177377-3	MW-16-07	Total/NA	Water	9056A	
240-177377-4	MW-16-08	Total/NA	Water	9056A	
240-177377-6	EB-01	Total/NA	Water	9056A	
MB 240-554788/3	Method Blank	Total/NA	Water	9056A	
LCS 240-554788/4	Lab Control Sample	Total/NA	Water	9056A	
240-177377-1 MS	MW-16-02	Total/NA	Water	9056A	
240-177377-1 MSD	MW-16-02	Total/NA	Water	9056A	

Analysis Batch: 554983

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-177377-2	DUP-01	Total/NA	Water	9056A	
240-177377-5	DUP-02	Total/NA	Water	9056A	
MB 240-554983/36	Method Blank	Total/NA	Water	9056A	
LCS 240-554983/37	Lab Control Sample	Total/NA	Water	9056A	
240-177377-2 MS	DUP-01	Total/NA	Water	9056A	
240-177377-2 MSD	DUP-01	Total/NA	Water	9056A	

Job ID: 240-177377-1

Eurofins Canton

Lab Chronicle

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power - Verification

Client Sample ID: MW-16-02

Lab Sample ID: 240-177377-1

Date Collecte	d: 12/01/22 1	0:14							Matrix: Water
Date Received	d: 12/03/22 0	8:00							
	Batch	Batch		Dilution	Batch			Prenared	
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	9056A		$-\frac{10001}{5}$	554788	JMB	EET CAN	$-\frac{12/07/22\ 05:23}{12/07/22\ 05:23}$	
		D 01					Lab	Sample ID:	240 477277 2
Client Samp		-01					Lap	Sample ID:	240-1//3//-2
Date Collecte	d: 12/01/22 0	0:00							Matrix: Water
Date Received	d: 12/03/22 0	8:00							
	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	9056A			554983	JMB	EET CAN	12/08/22 03:37	
 Client Samı		-16-07					l ah	Sample ID:	240-177377-3
Data Collector	d: 12/01/22 0	0.20					Lab	Campie ID.	Matrix: Wator
Date Collected	u. 12/01/22 0 d· 12/03/22 0	9.29 8.00							Wallix. Walei
	u. 12/03/22 0	0.00							
	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	9056A		20	554788	JMB	EET CAN	12/07/22 06:43	
Client Sam	ple ID: MW	-16-08					Lab	Sample ID:	240-177377-4
Date Collecter	d· 11/30/22 1	4.37							Matrix: Water
Date Received	d: 12/03/22 0	8:00							
	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	9056A		20	554788	JMB	EET CAN	12/07/22 07:03	
Client Sam	ple ID: DUI	P-02					Lab	Sample ID:	240-177377-5
Date Collecte	d: 12/01/22 0	0:00							Matrix: Water
Date Received	d: 12/03/22 0	8:00							
	Detek	Datah		Dilution	Detah			Description	
	Batch	Batch		Dilution	Batch	A	1.1	Prepared	
			Run	- Factor	Number	Analyst		or Analyzed	
	Analysis	9056A		20	554983	JMB	EETCAN	12/06/22 05:16	
Client Sam	ple ID: EB-	01					Lab	Sample ID:	240-177377-6
Date Collected	d: 11/29/22 1	5:40							Matrix: Water
Date Received	d: 12/03/22 0	8:00							
Γ	Batch	Batch		Dilution	Ratch			Prenared	
Pren Type	Type	Method	Run	Factor	Number	∆nalvet	Lab	or Analyzed	
Total/NA	<u>Apolycic</u>	90564		1	55/1722	IMB	EFT CAN	- <u>12/07/22 08:24</u>	
	Analy 313	5050A			004700			12,01,22 00.24	

Laboratory References:

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

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Project/Site: CCR DTE Belle River Power - Verification

Job ID: 240-177377-1

Laboratory: Eurofins Canton

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

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

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		mact cent Buening	Phone 754 210 92 95 Kis Brooks@et eurofinsus.com	State of Origin: Page 1 (of 1
	Полновие	v vvironmental Corporation.	Analysi	Requested	
9 Полнование	(1) (1)<	isenhower Place	Due Date Requested:	Preserva	ation Codes: M - Hexane
0.0000 0.000000 0.000000 0.000000 0.000000 0.000000 0.00000000000000000000000000000000000	0.000 Отвениениение Отвениение Отвениениение Отвениениение Отвениениениениение Отвениениениениениениениениениениениениение	bor	TAT Requested (days):	A - HCL B - NaOH C - ZN AC	H N - None cetate D - AsNaO2
Officing Constrained Constrained <thconstrained< th=""> <thconstrained< th=""> <t< td=""><td>Other Total <th< td=""><td>08-7080</td><td>Compliance Project: Δ Yes Δ No</td><td>D - Nitric</td><td>SO4 R - Na2SO3</td></th<></td></t<></thconstrained<></thconstrained<>	Other Total Total <th< td=""><td>08-7080</td><td>Compliance Project: Δ Yes Δ No</td><td>D - Nitric</td><td>SO4 R - Na2SO3</td></th<>	08-7080	Compliance Project: Δ Yes Δ No	D - Nitric	SO4 R - Na2SO3
Operation WORS	Operationation Workson	-7080(Tel) 313-971-9022(Fax)	P0# 179971 - 2022 ô	G - Amch	H hlor S - H2SO4 T - TSP Dodecahydrate
The Rule Flower : Variation The Rule Flower : Variation Second Flower : Rule Flower : Variation Second	Time Time <th< td=""><td>g@trccompanies.com</td><td>WO # 0029 0003 P1 T2 01 00 01 00 00 00 00 00 00 00 00 00 00</td><td>1 - Ice</td><td>U - Acetone ater V - MCAA</td></th<>	g@trccompanies.com	WO # 0029 0003 P1 T2 01 00 01 00 00 00 00 00 00 00 00 00 00	1 - Ice	U - Acetone ater V - MCAA
Signal Signal<	Construction Source Construction Source Construction Construction Service for any service for	ame FE Belle River Power - Verificaiton	Project # 24016463	1. EDA	A Y - Trizma Z - other (specify)
Activitation Sample faits Sample fait Sample faits Sample fait	Contribution Sample Mark Mark </td <td>c</td> <td>SSOW# Sample Sam</td> <td>of con</td> <td></td>	c	SSOW# Sample Sam	of con	
2 10.122 10.122 10.132 12.122 11.122 11.122 11.122 12.122	Column Column <thcolum< th=""> <thcolum< th=""></thcolum<></thcolum<>	Mantification	Sample Matrix Sample Matrix Sample ("Werended" Type ("Werended" Sample (Type ("Werended" Sample (C=Comp, Ownershould, "Perform Sample (C=Comp, Ownershould, "Performance, Sample (S=Sample (S=	otal Number	
22 12.1.2.2 10.1.2.2 10.1.4.2 Water NM X N N X N N X N N X N N X N N X N N X N N X N N X N N X N N X N N X N N X N N X N N X N N X N <th< td=""><td>02 12.1.22 10.1.22</td><td></td><td>Preservation Code: X N N</td><td></td><td>pecial instructions/Note:</td></th<>	02 12.1.22 10.1.22		Preservation Code: X N N		pecial instructions/Note:
17 17 030 17 050 17 17 17 17 17 17 17	11 12 13 12 <	22	12.1.27 1014 G Water WN X		
1 12122 0325 C Water N X N N 11 20 22 1132 22 1457 G Water N X 11 20 2 Water N X N X N N 11 22 22 1457 G Water N X N N N 11 25 25 17 G Water N X N N N 11 25 5 740 G Water N X N N 11 12 22 12 27 15 G Water N N N 11 25 17 15 15 G Water N N N 12 10 15 15 15 15 16 N N 12 10 15 15 15 16 N N N N 13 10 15 15 15 16 16 N N N N N 15 10 15 15 16	11 12 <		12.177 - G water NN N		Day
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Eurofine Conton Samula Dessint Form/Nerrative	gin # ·
Barberton Facility	giii #
Client TDC Site Name	Cooler unpacked by:
Cooler Received on 1222	- (hade M
FedEx: 1st Grd Exp LIPS EAS Clipper Client Drop Off Furgins Court	er Other
Receipt After-hours: Drop-off Date/Time Storage Lo	cation
Eurofins Cooler # TH Foam Box Client Cooler Box Other	
Packing material used: Bubble Wrap Foam Riastic Bag None O	ther
COOLANT: Wertee Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt See Multiple	Cooler Form
IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp. °C Corrected	Cooler Temp°C
IR GUN # IR-16 (CF -0.1°C) Observed Cooler Temp. C Corrected	Cooler Temp°C
ik GON # IK-17 (CF -0.5 C) Observed Cooler Temp C Conected	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	- No Tests that are not
-were the seals on the outside of the cooler(s) signed & dated?	Cos No NA checked for pH by
-were tamper/custody seals on the doule(s) of doule kits (LLrig/Merig)?	No NA Receiving:
3 Shippers' packing slip attached to the cooler(s)?	Vas No VOAs
4. Did custody papers accompany the sample(s)?	Ves No Oil and Grease
5. Were the custody papers relinquished & signed in the appropriate place?	No TOC
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Nos No
7. Did all bottles arrive in good condition (Unbroken)?	los No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	YO No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N)	I), and sample type of grab/comp(N)?
10. Were correct bottle(s) used for the test(s) indicated?	Yet No
11. Sufficient quantity received to perform indicated analyses?	Ver No
12. Are these work share samples and all listed on the COC?	ies (vg
13 Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA pH Strip Lot# HC286797
14. Were VOAs on the COC?	Yes No
15. Were air bubbles >6 mm in any VOA vials? 🛑 🖕 Larger than this.	Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No
17. Was a LL Hg or Me Hg trip blank present?	Yes No
Contacted BM Date by via V	Verhal Voice Mail Other
	Verbal Voice Mail Office
Concerning	
18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Additional nout	trace Complete processed hus
16. CHAIN OF CUSIOD I & SAMPLE DISCREPANCIES G additional next	page Samples processed by.
19. SAMPLE CONDITION	
Sample(s) were received after the recommend	ted nolding time had expired.
Sample(s) were	received in a broken container.
Sample(s) were received with bubble :	>o mm in diameter. (Notily PM)
20. SAMPLE PRESERVATION	
Sample(s)	were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):	Provide and a second seco
VOA Sample Preservation - Date/Time VOAs Frozen:	

WI-NC-099

Login # : __

	Eurofins - Canto	on Sample Receipt Mu	Itiple Cooler Form	
Cooler Description	IR Gun #	Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
EC Client Box Other	IR-13 IR-10 IR-17	1.4	1.3 (Wet loe Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17	1.10	1.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
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EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
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EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
			See Tempe	erature Excursion Form

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

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Appendix C Data Quality Reviews

Laboratory Data Quality Review Groundwater Monitoring Event April 2022 (Detection Monitoring) DTE Electric Company Belle River Power Plant (DTE BRPP)

Groundwater samples were collected by TRC for the April 2022 sampling event for the Bottom Ash Basins (BAB) at the DTE BRPP. Samples were analyzed for anions, total recoverable metals, and total dissolved solids by Eurofins-Environment Testing America (Eurofins), located in North Canton, Ohio. The laboratory analytical results are reported in laboratory report 240-164920-1.

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

MW-16-01

MW-16-03

MW-16-04

MW-16-09

MW-16-02

Each sample was analyzed for the following constituents:

Analyte Group	Method
Anions (Chloride, Fluoride, Sulfate)	SW846 9056A
Total Recoverable Boron	SW846 3005A/6010B
Total Recoverable Calcium and Iron	SW846 3005A/6020
Total Dissolved Solids	SM 2540C

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

Data Quality Review Procedure

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

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

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

This data usability report addresses the following items:

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

Review Summary

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

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

QA/QC Sample Summary

- There was one equipment blank submitted with this dataset (EB-01). No target analytes were detected in the equipment blank.
- Target analytes were not detected in the method blanks.
- LCS recoveries for all target analytes were within laboratory control limits.
- MS and MSD analyses were performed on sample MW-16-01 for total recoverable metals and MS analysis was performed on sample MW-16-04 for fluoride and sulfate; the percent recoveries and relative percent differences (RPDs) were within criteria.
- Laboratory duplicate analyses were performed on sample EB-01 for TDS; RPD was within the QC limits.
- The field duplicate pair samples were MW-16-019 and DUP-01 for anions, total recoverable metals, and TDS; RPDs between the parent and duplicate sample were within the QC limits.

Laboratory Data Quality Review Groundwater Monitoring Event May 2022 (Detection Monitoring) DTE Electric Company Belle River Power Plant (DTE BRPP) Bottom Ash Basins Verification

Groundwater samples were collected by TRC for the May 2022 sampling event for the Bottom Ash Basins at the DTE BRPP. Samples were analyzed for total recoverable calcium and sulfate by Eurofins Environment Testing America (Eurofins) located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-166571-1.

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

MW-16-01 MW-16-02

Each sample was analyzed for one of the following constituents:

Analyte Group	Method
Sulfate	SW846 9056A
Total Recoverable Calcium	SW846 3005A/6020

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

Data Quality Review Procedure

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

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

- Data for blind field duplicates. Field duplicate samples are used to assess variability introduced by the sampling and analytical processes; and
- Overall usability of the data.

This data usability report addresses the following items:

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

Review Summary

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

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

QA/QC Sample Summary

- There was one equipment blank submitted with this dataset (EB-01). No target analytes were detected in the equipment blank.
- Target analytes were not detected in the method blanks.
- LCS recoveries for all target analytes were within laboratory control limits.
- MS/MSD analyses were not performed on a sample from this sample set.
- The field duplicate pair samples were DUP-01 and MW-16-01 for total recoverable calcium and samples DUP-02 and MW-16-02 for sulfate; RPDs between the parent and duplicate sample were within the QC limits.

Laboratory Data Quality Review Groundwater Monitoring Event October 2022 (Detection Monitoring) DTE Electric Company Belle River Power Plant (DTE BRPP)

Groundwater samples were collected by TRC for the October 2022 sampling event for the Bottom Ash Basins at the DTE BRPP. Samples were analyzed for anions, total recoverable metals, and total dissolved solids by Eurofins-Environment Testing America (Eurofins), located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-174692-1.

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

Bottom Ash Basins:

MW-16-01

MW-16-02

MW-16-03

MW-16-04

■ MW-16-09

Each sample was analyzed for the following constituents:

Analyte Group	Method
Anions (Chloride, Fluoride, Sulfate)	SW846 9056A
Total Recoverable Boron	SW846 3005A/6010B
Total Recoverable Calcium and Iron	SW846 3005A/6020
Total Dissolved Solids	SM 2540C

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

Data Quality Review Procedure

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

- Sample receipt, as noted in the cover page or case narrative;
- Technical holding times for analyses;
- Reporting limits (RLs) compared to project-required RLs;
- Data for method blanks, equipment blanks, and field blanks. Method blanks are used to assess potential contamination arising from laboratory sample preparation and/or analytical procedures. Field and equipment blanks are used to assess potential contamination arising from field procedures;
- Data for laboratory control samples (LCSs) and laboratory control sample duplicates (LCSDs), when performed. The LCSs and/or LCSDs are used to assess the accuracy of the analytical method using a clean matrix;

- Percent recoveries for matrix spike (MS) and matrix spike duplicates (MSD), when performed on project samples. Percent recoveries are calculated for each analyte spiked and used to assess bias due to sample matrix effects;
- Data for laboratory duplicates, when performed on project samples. The laboratory duplicates are replicate analyses of one sample and are used to assess the precision of the analytical method;
- Data for blind field duplicates. Field duplicate samples are used to assess variability introduced by the sampling and analytical processes; and
- Overall usability of the data.

This data usability report addresses the following items:

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

Review Summary

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

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

QA/QC Sample Summary

- An equipment blank was not collected with this data set.
- Target analytes were not detected in the method blanks.
- Sample DUP-01 was analyzed 9 days outside of the holding time for TDS due to issues with the LCS. The result from the original analysis was reported and should be used for project objectives; therefore, there was no adverse effect on the usability of the data due to the holding time exceedance.
- LCS recoveries for all target analytes were within laboratory control limits with the following exception. The recovery of TDS in LCS 240-547745/2 (159%) associated with the original TDS analysis of sample DUP-01 exceeded QC limits (80-120%). The laboratory reanalyzed this sample outside of the holding time due to this issue; the LCS recovery associated with the reanalysis was within QC limits. The result from the original TDS analysis should be used for project objectives. Therefore, the positive result for TDS from the original analysis of sample DUP-01 should be considered estimated with a potential high bias as summarized in the attached table, Attachment A.
- MS/MSD analyses were performed on sample MW-16-01 for boron, calcium, and iron; the percent recoveries (%Rs) and relative percent differences (RPDs) were within acceptance criteria.
- Laboratory duplicate analyses were performed for TDS on samples MW-16-09 and DUP-01. The RPD met the acceptance criteria.

 DUP-1 corresponds with MW-16-03; RPDs between the parent and duplicate sample were within the QC limits.

Attachment A Summary of Data Non-Conformances for Groundwater Monitoring Event Analytical Data Belle River Power Plant CCR Bottom Ash Basins China Township, Michigan

Samples	Collection Date	Analyte	Non-Conformance/Issue
DUP-01	10/12/2022	TDS	LCS recoveries exceeded QC limits, positive result should be considered estiamted with a potential high bias.

Laboratory Data Quality Review Groundwater Monitoring Event December 2022 (Detection Monitoring) DTE Electric Company Belle River Power Plant (DTE BRPP) Bottom Ash Basins Verification

Groundwater samples were collected by TRC for the December 2022 sampling event for the Bottom Ash Basins at the DTE BRPP. Samples were analyzed for sulfate by Eurofins-Environment Testing America (Eurofins), located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-177377-1.

During the December 2022 sampling event, a groundwater sample was collected from the following well:

Bottom Ash Basins:

MW-16-02

The sample was analyzed for the following constituents:

Analyte Group	Method
Anions (Sulfate)	SW846 9056A

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

The analytical data were reviewed using the USEPA National Functional Guidelines for Inorganic Superfund Data Review (USEPA, 2017). The following items were included in the evaluation of the data:

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

• Overall usability of the data.

This data usability report addresses the following items:

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

Review Summary

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

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

QA/QC Sample Summary

- An equipment blank was not submitted with this dataset for sulfate analysis.
- MS/MSD analyses were performed on sample MW-16-02 and DUP-01 for sulfate; the percent recoveries (%Rs) and relative percent differences (RPDs) were within the acceptance limits.
- DUP-01 corresponds with MW-16-02. The absolute difference between the sulfate results was greater than the QL; the positive and nondetect results for sulfate in samples MW-16-02 with DUP-01 should be considered estimated as summarized in the attached table, Attachment A.
- The RL for sulfate (2 mg/L) in sample DUP-01 was above the QAPP-specified RL (1 mg/L) due to a 2-fold dilution performed.

Attachment A Summary of Data Non-Conformances for Groundwater Monitoring Event Analytical Data Belle River Power Plant CCR Bottom Ash Basins China Township, Michigan

Samples	Collection Date	Analyte	Non-Conformance/Issue
MW-16-02	12/1/2022	Sulfate	Field duplicate variability (AbsD > RL) resulting in estimated values
DUP-01	12/1/2022		