



2024 Annual Groundwater Monitoring Report

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

January 2025

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Executive Summary

On April 17, 2015, the United States Environmental Protection Agency (USEPA) published the final rule for the regulation and management of Coal Combustion Residuals (CCR) under the Resource Conservation and Recovery Act (RCRA) (the CCR Rule), as amended. The CCR Rule, which became effective on October 19, 2015, 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 2024 activities at the BRPP BABs CCR unit.

The BRPP BABs CCR unit was operating under the detection monitoring program at the start of the 2024 annual reporting period and remained in the detection monitoring program through the end of the 2024 annual reporting period. The semiannual detection monitoring events for 2024 were completed in April and October 2024 and included sampling and analyzing groundwater within the groundwater monitoring system for the indicator parameters listed in Appendix III to the CCR Rule. As part of the statistical evaluation, the data collected during detection monitoring events are evaluated to identify statistically significant increases (SSIs) in Appendix III parameters to determine if concentrations in groundwater exceed prediction limits. All the monitoring data that have been collected and evaluated under §257.90 through §257.98 in 2024 are presented in this report.

No initial SSIs over prediction limits were recorded for Appendix III constituents in the monitoring wells during the April and October 2024 monitoring events. A potential SSI for calcium was detected in one monitoring well, MW-16-03, during the October 2024 monitoring event. This potential SSI was not statistically significant (i.e. verification resampling did not confirm the exceedance). Therefore, detection monitoring will continue 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, 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 2024 activities at the BRPP BABs CCR unit (2024 Annual Report).

This 2024 Annual Report presents the monitoring results and the statistical evaluation of the detection monitoring parameters (Appendix III to Part 257 of the CCR Rule) for the April and October 2024 semiannual groundwater monitoring events for the BRPP BABs CCR unit. Detection monitoring for these events continued to be performed in accordance with the *CCR Groundwater Monitoring and Quality Assurance Project Plan – DTE Electric Company 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 with soil hydraulic conductivity testing extending into December 2022 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 Alternative Liner Demonstration (ALD) that was submitted to the EPA on April 10, 2023 (Geosyntec, 2023). The ALD 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.

From December 2022 to April 2023 DTE Electric performed an additional uppermost aquifer characterization as detailed in the April 2023 *Additional Uppermost Aquifer Characterization Study, Belle River Power Plant Bottom Ash Basins CCR Unit, 4505 King Road, China Township, Michigan* (Aquifer Characterization Study) prepared by TRC (TRC, April 2023) that was included in the *2023 Annual Groundwater Monitoring Report* (TRC, January 2024). The Aquifer Characterization Study presents an analysis of geochemical, stable isotopic, and tritium data collected in December 2022 along with pre-existing data from the BRPP BABs CCR unit that confirms the uppermost aquifer is not in hydraulic communication with the CCR unit and further demonstrates that the uppermost aquifer groundwater is unaffected by the CCR unit water.

In addition, in 2023, DTE Electric retrofitted the BRPP BABs CCR unit by removing the existing CCR from both the north and south BABs down to the clay-rich native soil, removing any potentially impacted subgrade material, and constructing an alternative composite liner system as described in the June and November 2023 *Construction Quality Assurance Report Belle River Bottom Ash Impoundment South Basin Retrofit and North Basin Retrofit* reports prepared by Burns & McDonnell, June and November 2023, respectively). The north and south BABs were retrofitted sequentially so that one BAB could be retrofitted while the other remained in service. Since October 2023, the BRPP BABs have been in service as a lined CCR surface impoundment.

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, which were retrofitted with a liner system in 2023, have been in use by the BRPP since it began operation to collect CCR bottom ash that is periodically cleaned out and either sold for beneficial reuse or disposed of at the Range Road Landfill (RRLF).

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 glacially deposited 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, 2023). 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 footprint of 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 2024 was performed on April 23 and 24, 2024 by TRC personnel and samples were analyzed by Eurofins Environment Testing America (Eurofins) in accordance with the QAPP. Static water elevation data were collected at all 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 2024 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 2024 was performed on October 28 and 29, 2024 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 2024 event is provided on Table 1 (static groundwater elevation data), Table 2 (field data), and Table 4 (analytical results). The laboratory analytical reports and field data for each detection monitoring event are included in Appendix A.

2.2.2 Data Quality Review

Data from each round were evaluated for completeness, overall quality and usability, method-specified sample holding times, precision and accuracy, and potential sample contamination. The data were found to be complete and usable for the purposes of the CCR monitoring program. Data quality reviews are summarized in Appendix B.

2.2.3 Groundwater Flow Rate and Direction

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 during the April 2024 sampling event are provided on Table 1 and are summarized in plan view on Figure 3. Groundwater elevations measured during the October 2024 sampling event are provided on Table 1 and are summarized in plan view on Figure 4.

Groundwater elevation data collected during the 2024 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, lack of consistent groundwater flow direction 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 that have been further demonstrated in the ALD and Aquifer Characterization Study. 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.

Consistent with the Stats Plan and the *USEPA's Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (Unified Guidance, USEPA, 2009), prediction limits are periodically updated to reflect the additional data and additional temporal variability observed over time. The Appendix III prediction limits for the BRPP BAB were updated per the Stats Plan and Unified Guidance in December 2021 to incorporate additional data collected since 2017 as presented in the December 15, 2021 *Technical Memorandum, Prediction Limit Update – DTE Electric Company, 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 Ash Basins Coal Combustion Residual Unit*, TRC, January 2022).

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

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 statistical evaluation of the April 2024 Appendix III indicator parameters shows no potential initial SSIs compared to background for any of the constituents. The calcium concentration at MW-16-09 has been previously demonstrated to be from natural variability and is not from a release at the BRPP BAB CCR unit as presented in the still applicable February 2022

Alternative Source Demonstration (ASD) that was included in the 2022 Annual Report. Therefore, no verification resampling was performed. The comparisons of the April 2024 monitoring event data to background limits are presented on Table 3.

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

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 statistical evaluation of the October 2024 Appendix III indicator parameters showed a potential initial SSI over background for:

- Calcium at MW-16-03

The calcium concentration at MW-16-09 during the Second Semiannual Event in October 2024 has been previously 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 was included in the 2022 Annual Report (TRC, January 2023). Comparisons of the October 2024 monitoring event to background limits are presented on Table 4.

3.4 Verification Resampling for the Second Semiannual Event

Verification resampling is recommended per the Stats Plan and the Unified Guidance to achieve performance standards as specified by §257.93(g) in the CCR Rule. Per the Stats Plan, if there is an exceedance of a prediction limit for one or more of the parameters, the well(s) of concern will be resampled within 30 days of the completion of the initial statistical analysis. Constituents that initially exceed their statistical limit (i.e., have no previously recorded SSIs) will be analyzed for verification purposes. As such, verification resampling for the October 2024 event was conducted on December 11, 2024, by TRC personnel. A groundwater sample was collected for calcium at MW-16-03 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 December 2024 verification sampling did not confirm the SSI for calcium at monitoring well MW-16-03. Therefore, in accordance with the Stats Plan and the Unified Guidance, the initial calcium exceedance is not statistically significant, and no SSI was recorded at MW-16-03 during the October 2024 sampling event. As such, DTE Electric will continue detection monitoring at the BRPP BAB CCR Unit in 2025 pursuant to §257.94 of the CCR Rule.

4.0 Conclusions and Recommendations

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

As discussed above and in the GWMS Report as well as the ALD and Aquifer Characterization Study, with the laterally contiguous clay with substantial vertical thickness that isolates the uppermost aquifer from the BRPP BABs CCR unit along with the recent BAB retrofit construction activities in which a composite liner system was installed in each BAB, there is no reasonable probability for the uppermost aquifer to be affected by CCR from BRPP operations.

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


5.0 Groundwater Monitoring Report Certification

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

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

CERTIFICATION

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

Name: David B. McKenzie, P.E.	Expiration Date: December 17, 2025	
Company: TRC Engineers Michigan, Inc.	Date: January 31, 2025	

6.0 References

- Burns & McDonnell. June 2023. Construction Quality Assurance Report, Belle River Bottom Ash Impoundment South Basin Retrofit prepared for DTE Electric Company. June 9, 2023.
- Burns & McDonnell. November 2023a. Construction Quality Assurance Report, Belle River Bottom Ash Impoundment North Basin Retrofit prepared for DTE Electric Company. November 3, 2023. Geosyntec Consultants (Geosyntec). April 2023. Alternative Liner Demonstration Bottom Ash Basins, DTE Electric Company Belle River Power Plant, China Township, Michigan
- TRC. July 2016; Revised March and August 2017. 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.
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- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA facilities, Unified Guidance. Office of Conservation and Recovery. EPA 530/R-09-007.
- USEPA. April 2015. 40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. 80 Federal Register 74 (April 17, 2015), pp. 21301-21501 (80 FR 21301).
- USEPA. July 2018. 40 CFR Part 257. Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals from Electric Utilities; Amendments to the National Minimum Criteria (Phase One, Part One); Final Rule. 83 Federal Register 146 (July 30, 2018), pp. 36435-36456 (83 FR 36435).

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

Tables

Table 1
 Groundwater Elevation Summary – April and October 2024
 Belle River Power Plant Bottom Ash Basins
 China Township, Michigan

Well ID	MW-16-01		MW-16-02		MW-16-03		MW-16-04		MW-16-09	
Date Installed	3/17/2016		3/15/2016		6/1/2016		3/8/2016		6/2/2016	
TOC Elevation	590.06		588.94		590.66		590.51		590.80	
Geologic Unit of Screened Interval	Sand		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
04/23/2024	15.69	574.37	13.33	575.61	16.05	574.61	16.52	573.99	16.15	574.65
10/28/2024	16.01	574.05	13.40	575.54	15.88	574.78	17.80	572.71	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 2
 Summary of Groundwater Field Parameters – April and October 2024
 Belle River Power Plant Diversion Basin
 China Township, Michigan

Sample Location	Sample Date	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Specific Conductivity (umhos/cm)	Temperature (°C)	Turbidity (NTU)
MW-16-01	4/24/2024	0.02	-148.5	7.6	1,170	10.20	4.92
	10/28/2024	0.05	-171.8	7.7	1,288	12.20	2.12
MW-16-02	4/24/2024	0.20	-106.3	7.4	924	10.30	3.98
	10/28/2024	0.66	-200.1	7.7	1,207	11.88	0.90
MW-16-03	4/24/2024	0.04	-140.1	7.7	1,336	10.20	1.96
	10/28/2024	0.65	-198.3	7.8	1,766	12.04	1.10
	12/11/2024 ⁽¹⁾	0.21	-118.1	7.7	2,094	10.52	0.69
MW-16-04	4/24/2024	0.23	-143.7	7.6	1,200	10.30	55.12
	10/28/2024	0.65	-243.9	7.9	1,573	12.91	13.10
MW-16-09	4/24/2024	0.00	-160.7	7.8	2,176	10.80	350.95
	10/29/2024	0.25	-155.4	8.3	2,466	17.20	OVER

Notes:

mg/L - Milligrams per Liter.

mV - Millivolts.

SU - Standard Units.

umhos/cm - Micromhos per centimeter.

°C - Degrees Celsius.

NTU - Nephelometric Turbidity Unit

(1) - Results shown for verification sampling completed on 12/11/2024.

Table 3
 Comparison of Detection Monitoring Parameter Results to Background Limits – April 2024
 Belle River Power Plant BABs
 China Township, Michigan

Sample Location:		MW-16-01		MW-16-02		MW-16-03		MW-16-04		MW-16-09	
Sample Date:		4/24/2024	PL	4/24/2024	PL	4/24/2024	PL	4/24/2024	PL	4/24/2024	PL
Constituent	Unit	Data	PL	Data	PL	Data	PL	Data	PL	Data	PL
Appendix III											
Boron	ug/L	1,100	1,300	1,200	1,300	1,100	1,200	1,000	1,200	1,500	1,900
Calcium	ug/L	42,000	44,000	58,000	58,000	35,000	35,000	41,000	60,000	93,000⁽¹⁾	42,000
Chloride	mg/L	470	510	360	390	570	800	500	520	950	1,100
Fluoride	mg/L	1.7	1.9	1.1	1.3	1.7	1.9	1.6	1.8	1.3	1.7
pH, Field	su	7.6	7.0 - 8.1	7.4	7.0 - 8.0	7.7	7.5 - 8.2	7.6	7.6 - 8.2	7.8	7.7 - 8.6
Sulfate	mg/L	7.6	14	11	15	< 1	5.9	8.6	36	5.3	37
Total Dissolved Solids	mg/L	870	970	740	910	980	1,100	900	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.

All metals were analyzed as total unless otherwise specified.

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

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

Table 4
 Comparison of Detection Monitoring Parameter Results to Background Limits – October 2024
 Belle River Power Plant BABs
 China Township, Michigan

Sample Location:		MW-16-01		MW-16-02		MW-16-03			MW-16-04		MW-16-09	
Sample Date:		10/28/2024	PL	10/28/2024	PL	10/28/2024	12/11/2024 ⁽¹⁾	PL	10/28/2024	PL	10/29/2024	PL
Constituent	Unit	Data		Data		Data			Data		Data	
Appendix III												
Boron	ug/L	1,100	1,300	1,200	1,300	1,100	--	1,200	1,100	1,200	1,600	1,900
Calcium	ug/L	42,000	44,000	57,000	58,000	36,000	34,000	35,000	45,000	60,000	45,000⁽²⁾	42,000
Chloride	mg/L	470	510	360	390	570	--	800	490	520	1,000	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	7.7	7.0 - 8.1	7.7	7.0 - 8.0	7.8	--	7.5 - 8.2	7.9	7.6 - 8.2	8.3	7.7 - 8.6
Sulfate	mg/L	6.6	14	10	15	< 1	--	5.9	8.1	36	4.1	37
Total Dissolved Solids	mg/L	890	970	890	910	970	--	1,100	800	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.

All metals were analyzed as total unless otherwise specified.

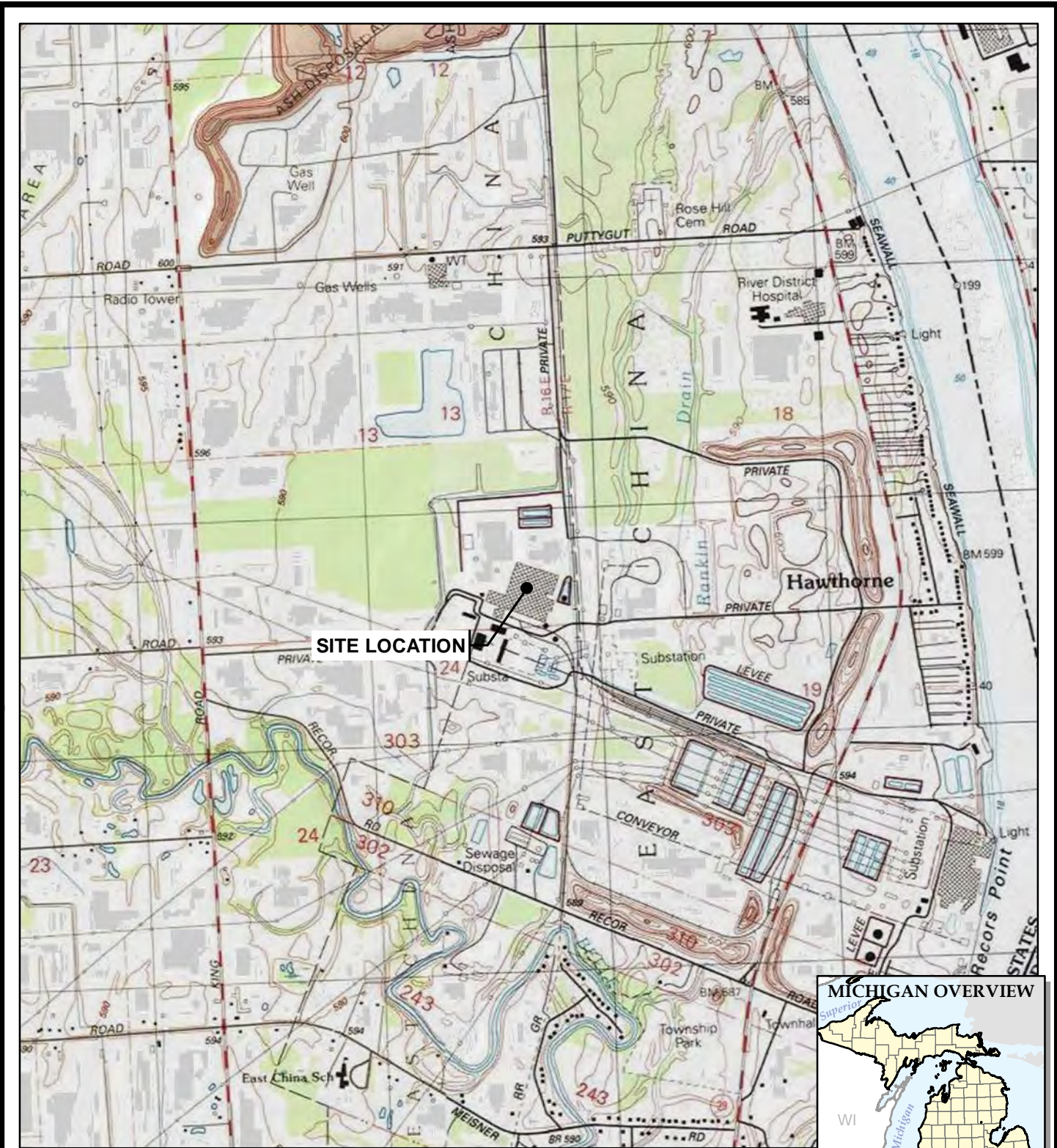
Bold font indicates an exceedance of the Prediction Limit (PL).

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

(1) - Results show for verification samples collected on 12/11/2024.

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

Figures



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.



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

PROJECT:

**DTE ELECTRIC COMPANY
BELLE RIVER POWER PLANT
4505 KING ROAD
CHINA TOWNSHIP, MICHIGAN**

TITLE:

SITE LOCATION MAP

DRAWN BY:

A. FOJTIK

CHECKED BY:

J. KRENZ

APPROVED BY:

V. BUENING

DATE:

JANUARY 2025

PROJ. NO.:

553931.0003




FILE:

553931-0003_001.mxd

FIGURE 1

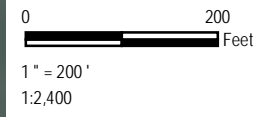



LEGEND

-  SOIL BORING
-  MONITORING
-  DECOMMISSIONED MONITORING

NOTES

1. BASE MAP IMAGERY FROM ESRI WORLD IMAGERY, (04/2023).
2. WELL LOCATIONS SURVEYED IN MARCH, APRIL, JUNE 2016, AND JUNE 2017 BY BMJ ENGINEERS & SURVEYORS, INC.



PROJECT:		DTE ELECTRIC COMPANY BELLE RIVER POWER PLANT 4505 KING ROAD CHINA TOWNSHIP, MICHIGAN	
TITLE: SITE PLAN			
DRAWN BY:	A. FOJTIK	PROJ NO.:	553931.0003
CHECKED BY:	J. KRENZ	FIGURE 2	
APPROVED BY:	V. BUENING		
DATE:	JANUARY 2025		
		1540 Eisenhower Place Ann Arbor, MI 48108-3284 Phone: 734.971.7080 www.trccompanies.com	
FILE NO.:		553931-0003_002.mxd	

Monitoring Well Screen Information			
Monitoring Well ID	Screen Interval Lithology	Screen Interval Depth (ft BGS)	Screen Interval Elevation (ft NAVD 88)
MW-16-01	Sand	92.0 - 97.0	496.3 - 491.3
MW-16-02	Sand	92.0 - 97.0	494.3 - 489.3
MW-16-03	Silty Sand to Sand	132.0 - 137.0	456.0 - 451.0
MW-16-04	Sand	119.0 - 124.0	468.5 - 463.5
MW-16-09	Sand	136.0 - 141.0	452.3 - 447.3



LEGEND

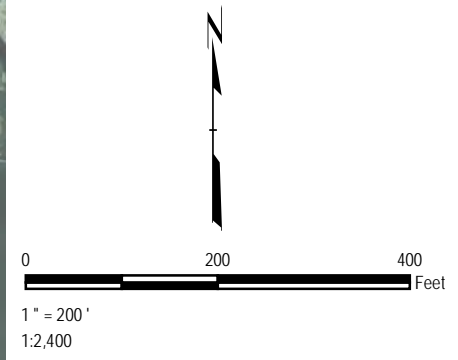
- SOIL BORING
- MONITORING WELL
- DECOMMISSIONED MONITORING WELL

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 ESRI WORLD IMAGERY, (04/2023).
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.



PROJECT:		DTE ELECTRIC COMPANY BELLE RIVER POWER PLANT BOTTOM ASH BASIN 4505 KING ROAD CHINA TOWNSHIP, MICHIGAN	
TITLE:		BOTTOM ASH BASINS GROUNDWATER POTENTIOMETRIC ELEVATION SUMMARY APRIL 2024	
DRAWN BY:	A. FOJTIK	PROJ NO.:	553931.0003
CHECKED BY:	A. WHALEY	FIGURE 3	
APPROVED BY:	V. BUENING		
DATE:	JANUARY 2025		

TRC

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FILE NO.: 553931-0003-003.d.mxd

Monitoring Well Screen Information			
Monitoring Well ID	Screen Interval Lithology	Screen Interval Depth (ft BGS)	Screen Interval Elevation (ft NAVD 88)
MW-16-01	Sand	92.0 - 97.0	496.3 - 491.3
MW-16-02	Sand	92.0 - 97.0	494.3 - 489.3
MW-16-03	Silty Sand to Sand	132.0 - 137.0	456.0 - 451.0
MW-16-04	Sand	119.0 - 124.0	468.5 - 463.5
MW-16-09	Sand	136.0 - 141.0	452.3 - 447.3



LEGEND

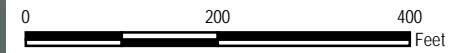
- SOIL BORING
- MONITORING WELL
- DECOMMISSIONED MONITORING WELL

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 ESRI WORLD IMAGERY, (04/2023).
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.



1" = 200'
1:2,400

PROJECT:		DTE ELECTRIC COMPANY BELLE RIVER POWER PLANT BOTTOM ASH BASIN 4505 KING ROAD CHINA TOWNSHIP, MICHIGAN	
TITLE:		BOTTOM ASH BASINS GROUNDWATER POTENTIOMETRIC ELEVATION SUMMARY OCTOBER 2024	
DRAWN BY:	A. FOJTIK	PROJ NO.:	553931.0003
CHECKED BY:	A. WHALEY	FIGURE 4	
APPROVED BY:	V. BUENING		
DATE:	JANUARY 2025		



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Ann Arbor, MI 48108-3284
Phone: 734.971.7080
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Appendix A

Laboratory Analytical Data and Field Data



ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/3/2024 6:48:25 AM

JOB DESCRIPTION

CCR DTE Belle River Bottom Ash Basins

JOB NUMBER

240-203470-1

Eurofins Cleveland

Job Notes

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

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

Authorization



Generated
5/3/2024 6:48:25 AM

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



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Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Qualifiers

Metals

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

General Chemistry

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

Glossary

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

Case Narrative

Client: TRC Environmental Corporation.
Project: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Job ID: 240-203470-1

Eurofins Cleveland

Job Narrative 240-203470-1

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

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

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

Receipt

The samples were received on 4/27/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 1.2°C, 1.3°C, 1.9°C, 1.9°C, 3.4°C, 3.7°C and 4.1°C.

Metals

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

General Chemistry

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

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Method Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

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

Protocol References:

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

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

Laboratory References:

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



Sample Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-203470-1	MW-16-04	Water	04/24/24 09:25	04/27/24 08:00
240-203470-2	MW-16-01	Water	04/24/24 10:20	04/27/24 08:00
240-203470-3	MW-16-02	Water	04/24/24 11:05	04/27/24 08:00
240-203470-4	MW-16-03	Water	04/24/24 11:55	04/27/24 08:00
240-203470-5	MW-16-09	Water	04/24/24 13:35	04/27/24 08:00
240-203470-6	DUP-01	Water	04/24/24 00:00	04/27/24 08:00

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

Detection Summary

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Client Sample ID: MW-16-04

Lab Sample ID: 240-203470-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1000		100	ug/L	1		6010D	Total Recoverable
Calcium	41000		1000	ug/L	1		6020B	Total Recoverable
Iron	1600		100	ug/L	1		6020B	Total Recoverable
Chloride	500		10	mg/L	10		9056A	Total/NA
Fluoride	1.6		0.050	mg/L	1		9056A	Total/NA
Sulfate	8.6		1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	900		20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-01

Lab Sample ID: 240-203470-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	42000		1000	ug/L	1		6020B	Total Recoverable
Iron	570		100	ug/L	1		6020B	Total Recoverable
Chloride	470		10	mg/L	10		9056A	Total/NA
Fluoride	1.7		0.050	mg/L	1		9056A	Total/NA
Sulfate	7.6		1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	870		20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-02

Lab Sample ID: 240-203470-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1200		100	ug/L	1		6010D	Total Recoverable
Calcium	58000		1000	ug/L	1		6020B	Total Recoverable
Iron	690		100	ug/L	1		6020B	Total Recoverable
Chloride	360		10	mg/L	10		9056A	Total/NA
Fluoride	1.1		0.050	mg/L	1		9056A	Total/NA
Sulfate	11		1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	740		10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-03

Lab Sample ID: 240-203470-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	35000		1000	ug/L	1		6020B	Total Recoverable
Iron	630		100	ug/L	1		6020B	Total Recoverable
Chloride	570		10	mg/L	10		9056A	Total/NA
Fluoride	1.7		0.050	mg/L	1		9056A	Total/NA
Total Dissolved Solids	980		20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Client Sample ID: MW-16-09

Lab Sample ID: 240-203470-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1500		100	ug/L	1		6010D	Total Recoverable
Calcium	93000		1000	ug/L	1		6020B	Total Recoverable
Iron	16000		100	ug/L	1		6020B	Total Recoverable
Chloride	950		20	mg/L	20		9056A	Total/NA
Fluoride	1.3		0.10	mg/L	2		9056A	Total/NA
Sulfate	5.3		2.0	mg/L	2		9056A	Total/NA
Total Dissolved Solids	1700		40	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 240-203470-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	36000		1000	ug/L	1		6020B	Total Recoverable
Iron	660		100	ug/L	1		6020B	Total Recoverable
Chloride	560		10	mg/L	10		9056A	Total/NA
Fluoride	1.7		0.050	mg/L	1		9056A	Total/NA
Total Dissolved Solids	1000		20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Client Sample ID: MW-16-04

Lab Sample ID: 240-203470-1

Date Collected: 04/24/24 09:25

Matrix: Water

Date Received: 04/27/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1000		100	ug/L		04/30/24 14:00	05/01/24 13:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	41000		1000	ug/L		04/30/24 14:00	05/01/24 10:16	1
Iron	1600		100	ug/L		04/30/24 14:00	05/01/24 10:16	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	500		10	mg/L			05/01/24 00:12	10
Fluoride (SW846 9056A)	1.6		0.050	mg/L			04/30/24 23:51	1
Sulfate (SW846 9056A)	8.6		1.0	mg/L			04/30/24 23:51	1
Total Dissolved Solids (SM 2540C)	900		20	mg/L			04/30/24 09:06	1

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Client Sample ID: MW-16-01

Lab Sample ID: 240-203470-2

Date Collected: 04/24/24 10:20

Matrix: Water

Date Received: 04/27/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		04/30/24 14:00	05/01/24 14:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	42000		1000	ug/L		04/30/24 14:00	05/01/24 16:57	1
Iron	570		100	ug/L		04/30/24 14:00	05/01/24 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	470		10	mg/L			05/01/24 00:56	10
Fluoride (SW846 9056A)	1.7		0.050	mg/L			05/01/24 00:34	1
Sulfate (SW846 9056A)	7.6		1.0	mg/L			05/01/24 00:34	1
Total Dissolved Solids (SM 2540C)	870		20	mg/L			04/30/24 09:06	1

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Client Sample ID: MW-16-02

Lab Sample ID: 240-203470-3

Date Collected: 04/24/24 11:05

Matrix: Water

Date Received: 04/27/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1200		100	ug/L		04/30/24 14:00	05/01/24 14:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	58000		1000	ug/L		04/30/24 14:00	05/01/24 16:59	1
Iron	690		100	ug/L		04/30/24 14:00	05/01/24 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	360		10	mg/L			05/01/24 01:39	10
Fluoride (SW846 9056A)	1.1		0.050	mg/L			05/01/24 01:17	1
Sulfate (SW846 9056A)	11		1.0	mg/L			05/01/24 01:17	1
Total Dissolved Solids (SM 2540C)	740		10	mg/L			04/30/24 09:06	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Client Sample ID: MW-16-03

Lab Sample ID: 240-203470-4

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/27/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		04/30/24 14:00	05/01/24 14:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	35000		1000	ug/L		04/30/24 14:00	05/01/24 17:02	1
Iron	630		100	ug/L		04/30/24 14:00	05/01/24 17:02	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	570		10	mg/L			05/01/24 03:06	10
Fluoride (SW846 9056A)	1.7		0.050	mg/L			05/01/24 02:44	1
Sulfate (SW846 9056A)	1.0	U	1.0	mg/L			05/01/24 02:44	1
Total Dissolved Solids (SM 2540C)	980		20	mg/L			04/30/24 09:06	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Client Sample ID: MW-16-09

Lab Sample ID: 240-203470-5

Date Collected: 04/24/24 13:35

Matrix: Water

Date Received: 04/27/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1500		100	ug/L		04/30/24 14:00	05/01/24 14:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	93000		1000	ug/L		04/30/24 14:00	05/01/24 17:04	1
Iron	16000		100	ug/L		04/30/24 14:00	05/01/24 17:04	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	950		20	mg/L			05/01/24 07:27	20
Fluoride (SW846 9056A)	1.3		0.10	mg/L			05/01/24 07:05	2
Sulfate (SW846 9056A)	5.3		2.0	mg/L			05/01/24 07:05	2
Total Dissolved Solids (SM 2540C)	1700		40	mg/L			04/30/24 10:49	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Client Sample ID: DUP-01

Lab Sample ID: 240-203470-6

Date Collected: 04/24/24 00:00

Matrix: Water

Date Received: 04/27/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		04/30/24 14:00	05/01/24 14:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	36000		1000	ug/L		04/30/24 14:00	05/01/24 17:07	1
Iron	660		100	ug/L		04/30/24 14:00	05/01/24 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	560		10	mg/L			05/01/24 08:10	10
Fluoride (SW846 9056A)	1.7		0.050	mg/L			05/01/24 07:48	1
Sulfate (SW846 9056A)	1.0	U	1.0	mg/L			05/01/24 07:48	1
Total Dissolved Solids (SM 2540C)	1000		20	mg/L			04/30/24 10:49	1

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-611317/1-A
Matrix: Water
Analysis Batch: 611559

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 611317

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	U	100	ug/L		04/30/24 14:00	05/01/24 13:35	1

Lab Sample ID: LCS 240-611317/2-A
Matrix: Water
Analysis Batch: 611559

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 611317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1010		ug/L		101	80 - 120

Lab Sample ID: 240-203470-1 MS
Matrix: Water
Analysis Batch: 611559

Client Sample ID: MW-16-04
Prep Type: Total Recoverable
Prep Batch: 611317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000		1000	2080		ug/L		104	75 - 125

Lab Sample ID: 240-203470-1 MSD
Matrix: Water
Analysis Batch: 611559

Client Sample ID: MW-16-04
Prep Type: Total Recoverable
Prep Batch: 611317

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1000		1000	2060		ug/L		102	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-611317/1-A
Matrix: Water
Analysis Batch: 611478

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 611317

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	ug/L		04/30/24 14:00	05/01/24 10:11	1
Iron	100	U	100	ug/L		04/30/24 14:00	05/01/24 10:11	1

Lab Sample ID: LCS 240-611317/3-A
Matrix: Water
Analysis Batch: 611478

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 611317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25000	24200		ug/L		97	80 - 120
Iron	5000	5060		ug/L		101	80 - 120

Lab Sample ID: 240-203470-1 MS
Matrix: Water
Analysis Batch: 611478

Client Sample ID: MW-16-04
Prep Type: Total Recoverable
Prep Batch: 611317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	41000		25000	69000		ug/L		113	80 - 120
Iron	1600		5000	7120		ug/L		111	80 - 120

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

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

Lab Sample ID: 240-203470-1 MSD
 Matrix: Water
 Analysis Batch: 611478

Client Sample ID: MW-16-04
 Prep Type: Total Recoverable
 Prep Batch: 611317

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Calcium	41000		25000	69700		ug/L		115	80 - 120	1	20
Iron	1600		5000	7200		ug/L		113	80 - 120	1	20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-611382/3
 Matrix: Water
 Analysis Batch: 611382

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	1.0	U	1.0	mg/L			04/30/24 18:03	1
Fluoride	0.050	U	0.050	mg/L			04/30/24 18:03	1
Sulfate	1.0	U	1.0	mg/L			04/30/24 18:03	1

Lab Sample ID: LCS 240-611382/4
 Matrix: Water
 Analysis Batch: 611382

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Chloride	50.0	49.9		mg/L		100	90 - 110
Fluoride	2.50	2.58		mg/L		103	90 - 110
Sulfate	50.0	51.2		mg/L		102	90 - 110

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

Lab Sample ID: MB 240-611300/1
 Matrix: Water
 Analysis Batch: 611300

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Total Dissolved Solids	10	U	10	mg/L			04/30/24 09:06	1

Lab Sample ID: LCS 240-611300/2
 Matrix: Water
 Analysis Batch: 611300

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Total Dissolved Solids	505	471		mg/L		93	80 - 120

Lab Sample ID: MB 240-611328/1
 Matrix: Water
 Analysis Batch: 611328

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Total Dissolved Solids	10	U	10	mg/L			04/30/24 10:49	1

QC Sample Results

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

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

Lab Sample ID: LCS 240-611328/2

Matrix: Water

Analysis Batch: 611328

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	505	485		mg/L		96	80 - 120

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QC Association Summary

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Metals

Prep Batch: 611317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203470-1	MW-16-04	Total Recoverable	Water	3005A	
240-203470-2	MW-16-01	Total Recoverable	Water	3005A	
240-203470-3	MW-16-02	Total Recoverable	Water	3005A	
240-203470-4	MW-16-03	Total Recoverable	Water	3005A	
240-203470-5	MW-16-09	Total Recoverable	Water	3005A	
240-203470-6	DUP-01	Total Recoverable	Water	3005A	
MB 240-611317/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-611317/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-611317/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-203470-1 MS	MW-16-04	Total Recoverable	Water	3005A	
240-203470-1 MS	MW-16-04	Total Recoverable	Water	3005A	
240-203470-1 MSD	MW-16-04	Total Recoverable	Water	3005A	
240-203470-1 MSD	MW-16-04	Total Recoverable	Water	3005A	

Analysis Batch: 611478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203470-1	MW-16-04	Total Recoverable	Water	6020B	611317
MB 240-611317/1-A	Method Blank	Total Recoverable	Water	6020B	611317
LCS 240-611317/3-A	Lab Control Sample	Total Recoverable	Water	6020B	611317
240-203470-1 MS	MW-16-04	Total Recoverable	Water	6020B	611317
240-203470-1 MSD	MW-16-04	Total Recoverable	Water	6020B	611317

Analysis Batch: 611559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203470-1	MW-16-04	Total Recoverable	Water	6010D	611317
240-203470-2	MW-16-01	Total Recoverable	Water	6010D	611317
240-203470-3	MW-16-02	Total Recoverable	Water	6010D	611317
240-203470-4	MW-16-03	Total Recoverable	Water	6010D	611317
240-203470-5	MW-16-09	Total Recoverable	Water	6010D	611317
240-203470-6	DUP-01	Total Recoverable	Water	6010D	611317
MB 240-611317/1-A	Method Blank	Total Recoverable	Water	6010D	611317
LCS 240-611317/2-A	Lab Control Sample	Total Recoverable	Water	6010D	611317
240-203470-1 MS	MW-16-04	Total Recoverable	Water	6010D	611317
240-203470-1 MSD	MW-16-04	Total Recoverable	Water	6010D	611317

Analysis Batch: 611561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203470-2	MW-16-01	Total Recoverable	Water	6020B	611317
240-203470-3	MW-16-02	Total Recoverable	Water	6020B	611317
240-203470-4	MW-16-03	Total Recoverable	Water	6020B	611317
240-203470-5	MW-16-09	Total Recoverable	Water	6020B	611317
240-203470-6	DUP-01	Total Recoverable	Water	6020B	611317

General Chemistry

Analysis Batch: 611300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203470-1	MW-16-04	Total/NA	Water	SM 2540C	
240-203470-2	MW-16-01	Total/NA	Water	SM 2540C	
240-203470-3	MW-16-02	Total/NA	Water	SM 2540C	
240-203470-4	MW-16-03	Total/NA	Water	SM 2540C	

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

General Chemistry (Continued)

Analysis Batch: 611300 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-611300/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-611300/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 611328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203470-5	MW-16-09	Total/NA	Water	SM 2540C	
240-203470-6	DUP-01	Total/NA	Water	SM 2540C	
MB 240-611328/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-611328/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 611382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-203470-1	MW-16-04	Total/NA	Water	9056A	
240-203470-1	MW-16-04	Total/NA	Water	9056A	
240-203470-2	MW-16-01	Total/NA	Water	9056A	
240-203470-2	MW-16-01	Total/NA	Water	9056A	
240-203470-3	MW-16-02	Total/NA	Water	9056A	
240-203470-3	MW-16-02	Total/NA	Water	9056A	
240-203470-4	MW-16-03	Total/NA	Water	9056A	
240-203470-4	MW-16-03	Total/NA	Water	9056A	
240-203470-5	MW-16-09	Total/NA	Water	9056A	
240-203470-5	MW-16-09	Total/NA	Water	9056A	
240-203470-6	DUP-01	Total/NA	Water	9056A	
240-203470-6	DUP-01	Total/NA	Water	9056A	
MB 240-611382/3	Method Blank	Total/NA	Water	9056A	
LCS 240-611382/4	Lab Control Sample	Total/NA	Water	9056A	

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Client Sample ID: MW-16-04

Lab Sample ID: 240-203470-1

Date Collected: 04/24/24 09:25

Matrix: Water

Date Received: 04/27/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6010D		1	611559	KLC	EET CLE	05/01/24 13:52
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6020B		1	611478	AJC	EET CLE	05/01/24 10:16
Total/NA	Analysis	9056A		1	611382	JWW	EET CLE	04/30/24 23:51
Total/NA	Analysis	9056A		10	611382	JWW	EET CLE	05/01/24 00:12
Total/NA	Analysis	SM 2540C		1	611300	C5SV	EET CLE	04/30/24 09:06

Client Sample ID: MW-16-01

Lab Sample ID: 240-203470-2

Date Collected: 04/24/24 10:20

Matrix: Water

Date Received: 04/27/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6010D		1	611559	KLC	EET CLE	05/01/24 14:13
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6020B		1	611561	AJC	EET CLE	05/01/24 16:57
Total/NA	Analysis	9056A		1	611382	JWW	EET CLE	05/01/24 00:34
Total/NA	Analysis	9056A		10	611382	JWW	EET CLE	05/01/24 00:56
Total/NA	Analysis	SM 2540C		1	611300	C5SV	EET CLE	04/30/24 09:06

Client Sample ID: MW-16-02

Lab Sample ID: 240-203470-3

Date Collected: 04/24/24 11:05

Matrix: Water

Date Received: 04/27/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6010D		1	611559	KLC	EET CLE	05/01/24 14:17
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6020B		1	611561	AJC	EET CLE	05/01/24 16:59
Total/NA	Analysis	9056A		1	611382	JWW	EET CLE	05/01/24 01:17
Total/NA	Analysis	9056A		10	611382	JWW	EET CLE	05/01/24 01:39
Total/NA	Analysis	SM 2540C		1	611300	C5SV	EET CLE	04/30/24 09:06

Client Sample ID: MW-16-03

Lab Sample ID: 240-203470-4

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/27/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6010D		1	611559	KLC	EET CLE	05/01/24 14:21
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6020B		1	611561	AJC	EET CLE	05/01/24 17:02
Total/NA	Analysis	9056A		1	611382	JWW	EET CLE	05/01/24 02:44

Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Client Sample ID: MW-16-03

Lab Sample ID: 240-203470-4

Date Collected: 04/24/24 11:55

Matrix: Water

Date Received: 04/27/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	611382	JWW	EET CLE	05/01/24 03:06
Total/NA	Analysis	SM 2540C		1	611300	C5SV	EET CLE	04/30/24 09:06

Client Sample ID: MW-16-09

Lab Sample ID: 240-203470-5

Date Collected: 04/24/24 13:35

Matrix: Water

Date Received: 04/27/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6010D		1	611559	KLC	EET CLE	05/01/24 14:26
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6020B		1	611561	AJC	EET CLE	05/01/24 17:04
Total/NA	Analysis	9056A		2	611382	JWW	EET CLE	05/01/24 07:05
Total/NA	Analysis	9056A		20	611382	JWW	EET CLE	05/01/24 07:27
Total/NA	Analysis	SM 2540C		1	611328	C5SV	EET CLE	04/30/24 10:49

Client Sample ID: DUP-01

Lab Sample ID: 240-203470-6

Date Collected: 04/24/24 00:00

Matrix: Water

Date Received: 04/27/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6010D		1	611559	KLC	EET CLE	05/01/24 14:30
Total Recoverable	Prep	3005A			611317	BN	EET CLE	04/30/24 14:00
Total Recoverable	Analysis	6020B		1	611561	AJC	EET CLE	05/01/24 17:07
Total/NA	Analysis	9056A		1	611382	JWW	EET CLE	05/01/24 07:48
Total/NA	Analysis	9056A		10	611382	JWW	EET CLE	05/01/24 08:10
Total/NA	Analysis	SM 2540C		1	611328	C5SV	EET CLE	04/30/24 10:49

Laboratory References:

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

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-203470-1

Laboratory: Eurofins Cleveland

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

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

Client Information		Sampler: <i>A. Whaley</i>		Lab PM: Brooks, Kris M		Carrier Tracking No(s):		COC No: 240-119551-41770.1				
Client Contact: Mr. Vincent Buening		Phone: <i>734-210-9239</i>		E-Mail: Kris.Brooks@et.eurofinsus.com		State of Origin: MI		Page: Page 1 of 1				
Company: TRC Environmental Corporation.		PWSID:		Analysis Requested					Job #:			
Address: 1540 Eisenhower Place		Due Date Requested: <i>standard</i>		Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 9056A_28D · Sulfate, Chloride, Fluoride 6010B Bo. 6020 Ca, Fe 2540C_Catcd · TDS					Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)			
City: Ann Arbor		TAT Requested (days): <i>Standard</i>										
State, Zip: MI, 48108-7030		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No										
Phone: 313-971-7080(Tel) 313-971-9022(Fax)		PO #: 214273										
Email: vbuening@trccompanies.com		WO #: 553931.0003.0000										
Project Name: CCR DTE Belle River Bottom Ash Basins		Project #: 24016463										
Site: Michigan		SSOW#:										
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)					Total Number of containers	Special Instructions/Note:
						Preservation Code: X X N D N						
MW-16-04		4/24/24	0925	G	Water	N	N	X	X	X		
MW-16-01		4/24/24	1020	G	Water	N	N	X	X	X		
MW-16-02		4/24/24	1105	G	Water	N	N	X	X	X		
MW-16-03		4/24/24	1155	G	Water	N	N	X	X	X		
MW-16-09		4/24/24	1335	G	Water	N	N	X	X	X		
Dup-01		4/24/24	---	G	Water	N	N	X	X	X		
					Water							



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Eurofins - Cleveland Sample Receipt Form/Narrative Login # : 20247D

Barberton Facility Cooler unpacked by J morosko

Client TRC Site Name

Cooler Received on 04/27/24 Opened on 04/27/24

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

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

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used Bubble Wrap Foam Plastic Bag None Other

COOLANT: Water Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt See Multiple Cooler Form

IR GUN # 18 (CF TD 2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp _____ °C

2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No NA

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

14 Were VOAAs on the COC? Yes No NA

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

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

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

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

Concerning _____

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

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

Sample(s) _____ were received in a broken container

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

20 SAMPLE PRESERVATION were further preserved in the laboratory

Sample(s) _____ were further preserved in the laboratory

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

VOA Sample Preservation - Date/Time VOAs Frozen _____

Login # _____

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: 18	3.7	3.7	(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 18	4.3	4.3	(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 18	4.1	4.1	(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 18	1.9	1.9	(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 18	1.9	1.9	(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 18	3.4	3.4	(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 18	1.2	1.2	(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			(Wet Ice) Blue Ice Dry Ice Water None

See Temperature Excursion Form



Temperature readings

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Container Temp</u>	<u>Preservation Added</u>	<u>Preservation Lot Number</u>
MW-16-04	240-203470-A-1	Plastic 60 mL - unpreserved				
MW-16-04	240-203470-B-1	Plastic 500ml - unpreserved				
MW-16-04	240-203470-C-1	Plastic 500ml - with Nitric Acid	<2			
MW-16-01	240-203470-A-2	Plastic 60 mL - unpreserved				
MW-16-01	240-203470-B-2	Plastic 500ml - unpreserved				
MW-16-01	240-203470-C-2	Plastic 500ml - with Nitric Acid	<2			
MW-16-02	240-203470-A-3	Plastic 60 mL - unpreserved				
MW-16-02	240-203470-B-3	Plastic 500ml - unpreserved				
MW-16-02	240-203470-C-3	Plastic 500ml - with Nitric Acid	<2			
MW-16-03	240-203470-A-4	Plastic 60 mL - unpreserved				
MW-16-03	240-203470-B-4	Plastic 500ml - unpreserved				
MW-16-03	240-203470-C-4	Plastic 500ml - with Nitric Acid	<2			
MW-16-09	240-203470-A-5	Plastic 60 mL - unpreserved				
MW-16-09	240-203470-B-5	Plastic 500ml unpreserved				
MW-16-09	240-203470-C-5	Plastic 500ml - with Nitric Acid	<2			
DUP-01	240-203470-A-6	Plastic 60 mL unpreserved				
DUP-01	240-203470-B-6	Plastic 500ml - unpreserved				
DUP-01	240-203470-C-6	Plastic 500ml - with Nitric Acid	<2			



ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/13/2024 7:41:49 PM

JOB DESCRIPTION

CCR DTE Belle River Bottom Ash Basins

JOB NUMBER

240-214080-1

Eurofins Cleveland

Job Notes

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

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

Authorization



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Authorized for release by
Kris Brooks, Project Manager II
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Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Qualifiers

Metals

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

General Chemistry

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

Glossary

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

Case Narrative

Client: TRC Environmental Corporation.
Project: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Job ID: 240-214080-1

Eurofins Cleveland

Job Narrative 240-214080-1

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

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

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

Receipt

The samples were received on 11/1/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0°C and 1.4°C.

Metals

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

General Chemistry

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

Method Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-214080-1	MW-16-02	Water	10/28/24 12:25	11/01/24 08:00
240-214080-2	MW-16-03	Water	10/28/24 11:47	11/01/24 08:00
240-214080-3	MW-16-04	Water	10/28/24 13:17	11/01/24 08:00
240-214080-4	DUP-01	Water	10/28/24 00:00	11/01/24 08:00
240-214080-5	MW-16-01	Water	10/28/24 10:47	11/01/24 08:00
240-214080-6	MW-16-09	Water	10/29/24 09:41	11/01/24 08:00

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Detection Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Client Sample ID: MW-16-02

Lab Sample ID: 240-214080-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1200		100	ug/L	1		6010D	Total Recoverable
Calcium	57000		1000	ug/L	1		6020B	Total Recoverable
Iron	870		100	ug/L	1		6020B	Total Recoverable
Chloride	360		5.0	mg/L	5		9056A	Total/NA
Fluoride	1.2		0.050	mg/L	1		9056A	Total/NA
Sulfate	10		1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	890		10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-03

Lab Sample ID: 240-214080-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	36000		1000	ug/L	1		6020B	Total Recoverable
Iron	610		100	ug/L	1		6020B	Total Recoverable
Chloride	570		5.0	mg/L	5		9056A	Total/NA
Fluoride	1.8		0.050	mg/L	1		9056A	Total/NA
Total Dissolved Solids	970		20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-04

Lab Sample ID: 240-214080-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	45000		1000	ug/L	1		6020B	Total Recoverable
Iron	800		100	ug/L	1		6020B	Total Recoverable
Chloride	490		5.0	mg/L	5		9056A	Total/NA
Fluoride	1.7		0.050	mg/L	1		9056A	Total/NA
Sulfate	8.1		1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	800		20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 240-214080-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	44000		1000	ug/L	1		6020B	Total Recoverable
Iron	860		100	ug/L	1		6020B	Total Recoverable
Chloride	490		5.0	mg/L	5		9056A	Total/NA
Fluoride	1.7		0.050	mg/L	1		9056A	Total/NA
Sulfate	8.1		1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	800		20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Client Sample ID: MW-16-01

Lab Sample ID: 240-214080-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1100		100	ug/L	1		6010D	Total Recoverable
Calcium	42000		1000	ug/L	1		6020B	Total Recoverable
Iron	450		100	ug/L	1		6020B	Total Recoverable
Chloride	470		5.0	mg/L	5		9056A	Total/NA
Fluoride	1.7		0.050	mg/L	1		9056A	Total/NA
Sulfate	6.6		1.0	mg/L	1		9056A	Total/NA
Total Dissolved Solids	890		20	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-16-09

Lab Sample ID: 240-214080-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Boron	1600		100	ug/L	1		6010D	Total Recoverable
Boron	1700		100	ug/L	1		6010D	Dissolved
Calcium	45000		1000	ug/L	1		6020B	Total Recoverable
Iron	15000		100	ug/L	1		6020B	Total Recoverable
Calcium	24000		1000	ug/L	1		6020B	Dissolved
Iron	190		100	ug/L	1		6020B	Dissolved
Chloride	1000		10	mg/L	10		9056A	Total/NA
Fluoride	1.5		0.10	mg/L	2		9056A	Total/NA
Sulfate	4.1		2.0	mg/L	2		9056A	Total/NA
Total Dissolved Solids	1700		20	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Client Sample ID: MW-16-02

Lab Sample ID: 240-214080-1

Date Collected: 10/28/24 12:25

Matrix: Water

Date Received: 11/01/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1200		100	ug/L		11/05/24 14:00	11/06/24 18:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	57000		1000	ug/L		11/05/24 14:00	11/06/24 12:49	1
Iron	870		100	ug/L		11/05/24 14:00	11/06/24 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	360		5.0	mg/L			11/11/24 23:20	5
Fluoride (SW846 9056A)	1.2		0.050	mg/L			11/11/24 22:21	1
Sulfate (SW846 9056A)	10		1.0	mg/L			11/11/24 22:21	1
Total Dissolved Solids (SM 2540C)	890		10	mg/L			11/04/24 11:15	1

Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Client Sample ID: MW-16-03

Lab Sample ID: 240-214080-2

Date Collected: 10/28/24 11:47

Matrix: Water

Date Received: 11/01/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		11/05/24 14:00	11/06/24 18:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	36000		1000	ug/L		11/05/24 14:00	11/06/24 12:52	1
Iron	610		100	ug/L		11/05/24 14:00	11/06/24 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	570		5.0	mg/L			11/12/24 00:00	5
Fluoride (SW846 9056A)	1.8		0.050	mg/L			11/11/24 23:40	1
Sulfate (SW846 9056A)	1.0	U	1.0	mg/L			11/11/24 23:40	1
Total Dissolved Solids (SM 2540C)	970		20	mg/L			11/04/24 11:15	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Client Sample ID: MW-16-04

Lab Sample ID: 240-214080-3

Date Collected: 10/28/24 13:17

Matrix: Water

Date Received: 11/01/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		11/05/24 14:00	11/06/24 18:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	45000		1000	ug/L		11/05/24 14:00	11/06/24 12:55	1
Iron	800		100	ug/L		11/05/24 14:00	11/06/24 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	490		5.0	mg/L			11/12/24 00:39	5
Fluoride (SW846 9056A)	1.7		0.050	mg/L			11/12/24 00:19	1
Sulfate (SW846 9056A)	8.1		1.0	mg/L			11/12/24 00:19	1
Total Dissolved Solids (SM 2540C)	800		20	mg/L			11/04/24 11:15	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Client Sample ID: DUP-01

Lab Sample ID: 240-214080-4

Date Collected: 10/28/24 00:00

Matrix: Water

Date Received: 11/01/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		11/05/24 14:00	11/06/24 18:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	44000		1000	ug/L		11/05/24 14:00	11/06/24 13:02	1
Iron	860		100	ug/L		11/05/24 14:00	11/06/24 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	490		5.0	mg/L			11/12/24 01:18	5
Fluoride (SW846 9056A)	1.7		0.050	mg/L			11/12/24 00:59	1
Sulfate (SW846 9056A)	8.1		1.0	mg/L			11/12/24 00:59	1
Total Dissolved Solids (SM 2540C)	800		20	mg/L			11/04/24 11:15	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Client Sample ID: MW-16-01

Lab Sample ID: 240-214080-5

Date Collected: 10/28/24 10:47

Matrix: Water

Date Received: 11/01/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1100		100	ug/L		11/05/24 14:00	11/06/24 18:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	42000		1000	ug/L		11/05/24 14:00	11/06/24 13:05	1
Iron	450		100	ug/L		11/05/24 14:00	11/06/24 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	470		5.0	mg/L			11/12/24 01:58	5
Fluoride (SW846 9056A)	1.7		0.050	mg/L			11/12/24 01:38	1
Sulfate (SW846 9056A)	6.6		1.0	mg/L			11/12/24 01:38	1
Total Dissolved Solids (SM 2540C)	890		20	mg/L			11/04/24 11:15	1



Client Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Client Sample ID: MW-16-09

Lab Sample ID: 240-214080-6

Date Collected: 10/29/24 09:41

Matrix: Water

Date Received: 11/01/24 08:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1600		100	ug/L		11/05/24 14:00	11/06/24 19:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1700		100	ug/L		11/05/24 14:00	11/06/24 19:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	45000		1000	ug/L		11/05/24 14:00	11/06/24 13:08	1
Iron	15000		100	ug/L		11/05/24 14:00	11/06/24 13:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	24000		1000	ug/L		11/05/24 14:00	11/06/24 13:10	1
Iron	190		100	ug/L		11/05/24 14:00	11/06/24 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	1000		10	mg/L			11/12/24 04:16	10
Fluoride (SW846 9056A)	1.5		0.10	mg/L			11/12/24 03:56	2
Sulfate (SW846 9056A)	4.1		2.0	mg/L			11/12/24 03:56	2
Total Dissolved Solids (SM 2540C)	1700		20	mg/L			11/04/24 11:15	1

QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-634002/1-A
 Matrix: Water
 Analysis Batch: 634221

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 634002

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

Lab Sample ID: LCS 240-634002/2-A
 Matrix: Water
 Analysis Batch: 634221

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 634002

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

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-634002/1-A
 Matrix: Water
 Analysis Batch: 634287

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 634002

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

Lab Sample ID: LCS 240-634002/3-A
 Matrix: Water
 Analysis Batch: 634287

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 634002

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

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-634867/3
 Matrix: Water
 Analysis Batch: 634867

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	1.0	mg/L			11/11/24 19:23	1
Fluoride	0.050	U	0.050	mg/L			11/11/24 19:23	1
Sulfate	1.0	U	1.0	mg/L			11/11/24 19:23	1

Lab Sample ID: LCS 240-634867/4
 Matrix: Water
 Analysis Batch: 634867

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.8		mg/L		100	90 - 110
Fluoride	2.50	2.62		mg/L		105	90 - 110
Sulfate	50.0	51.0		mg/L		102	90 - 110

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QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

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

Lab Sample ID: MB 240-633835/1
Matrix: Water
Analysis Batch: 633835

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10	U	10	mg/L			11/04/24 11:15	1

Lab Sample ID: LCS 240-633835/2
Matrix: Water
Analysis Batch: 633835

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	569	471		mg/L		83	80 - 120

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

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Metals

Prep Batch: 634002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214080-1	MW-16-02	Total Recoverable	Water	3005A	
240-214080-2	MW-16-03	Total Recoverable	Water	3005A	
240-214080-3	MW-16-04	Total Recoverable	Water	3005A	
240-214080-4	DUP-01	Total Recoverable	Water	3005A	
240-214080-5	MW-16-01	Total Recoverable	Water	3005A	
240-214080-6	MW-16-09	Dissolved	Water	3005A	
240-214080-6	MW-16-09	Total Recoverable	Water	3005A	
MB 240-634002/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-634002/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-634002/3-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 634221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214080-1	MW-16-02	Total Recoverable	Water	6010D	634002
240-214080-2	MW-16-03	Total Recoverable	Water	6010D	634002
240-214080-3	MW-16-04	Total Recoverable	Water	6010D	634002
240-214080-4	DUP-01	Total Recoverable	Water	6010D	634002
240-214080-5	MW-16-01	Total Recoverable	Water	6010D	634002
240-214080-6	MW-16-09	Dissolved	Water	6010D	634002
240-214080-6	MW-16-09	Total Recoverable	Water	6010D	634002
MB 240-634002/1-A	Method Blank	Total Recoverable	Water	6010D	634002
LCS 240-634002/2-A	Lab Control Sample	Total Recoverable	Water	6010D	634002

Analysis Batch: 634287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214080-1	MW-16-02	Total Recoverable	Water	6020B	634002
240-214080-2	MW-16-03	Total Recoverable	Water	6020B	634002
240-214080-3	MW-16-04	Total Recoverable	Water	6020B	634002
240-214080-4	DUP-01	Total Recoverable	Water	6020B	634002
240-214080-5	MW-16-01	Total Recoverable	Water	6020B	634002
240-214080-6	MW-16-09	Dissolved	Water	6020B	634002
240-214080-6	MW-16-09	Total Recoverable	Water	6020B	634002
MB 240-634002/1-A	Method Blank	Total Recoverable	Water	6020B	634002
LCS 240-634002/3-A	Lab Control Sample	Total Recoverable	Water	6020B	634002

General Chemistry

Analysis Batch: 633835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214080-1	MW-16-02	Total/NA	Water	SM 2540C	
240-214080-2	MW-16-03	Total/NA	Water	SM 2540C	
240-214080-3	MW-16-04	Total/NA	Water	SM 2540C	
240-214080-4	DUP-01	Total/NA	Water	SM 2540C	
240-214080-5	MW-16-01	Total/NA	Water	SM 2540C	
240-214080-6	MW-16-09	Total/NA	Water	SM 2540C	
MB 240-633835/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 240-633835/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 634867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214080-1	MW-16-02	Total/NA	Water	9056A	

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QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

General Chemistry (Continued)

Analysis Batch: 634867 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214080-1	MW-16-02	Total/NA	Water	9056A	
240-214080-2	MW-16-03	Total/NA	Water	9056A	
240-214080-2	MW-16-03	Total/NA	Water	9056A	
240-214080-3	MW-16-04	Total/NA	Water	9056A	
240-214080-3	MW-16-04	Total/NA	Water	9056A	
240-214080-4	DUP-01	Total/NA	Water	9056A	
240-214080-4	DUP-01	Total/NA	Water	9056A	
240-214080-5	MW-16-01	Total/NA	Water	9056A	
240-214080-5	MW-16-01	Total/NA	Water	9056A	
240-214080-6	MW-16-09	Total/NA	Water	9056A	
240-214080-6	MW-16-09	Total/NA	Water	9056A	
MB 240-634867/3	Method Blank	Total/NA	Water	9056A	
LCS 240-634867/4	Lab Control Sample	Total/NA	Water	9056A	

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Client Sample ID: MW-16-02

Date Collected: 10/28/24 12:25

Date Received: 11/01/24 08:00

Lab Sample ID: 240-214080-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6010D		1	634221	RKT	EET CLE	11/06/24 18:39
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6020B		1	634287	AJC	EET CLE	11/06/24 12:49
Total/NA	Analysis	9056A		1	634867	JMR	EET CLE	11/11/24 22:21
Total/NA	Analysis	9056A		5	634867	JMR	EET CLE	11/11/24 23:20
Total/NA	Analysis	SM 2540C		1	633835	TAV2	EET CLE	11/04/24 11:15

Client Sample ID: MW-16-03

Date Collected: 10/28/24 11:47

Date Received: 11/01/24 08:00

Lab Sample ID: 240-214080-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6010D		1	634221	RKT	EET CLE	11/06/24 18:43
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6020B		1	634287	AJC	EET CLE	11/06/24 12:52
Total/NA	Analysis	9056A		1	634867	JMR	EET CLE	11/11/24 23:40
Total/NA	Analysis	9056A		5	634867	JMR	EET CLE	11/12/24 00:00
Total/NA	Analysis	SM 2540C		1	633835	TAV2	EET CLE	11/04/24 11:15

Client Sample ID: MW-16-04

Date Collected: 10/28/24 13:17

Date Received: 11/01/24 08:00

Lab Sample ID: 240-214080-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6010D		1	634221	RKT	EET CLE	11/06/24 18:47
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6020B		1	634287	AJC	EET CLE	11/06/24 12:55
Total/NA	Analysis	9056A		1	634867	JMR	EET CLE	11/12/24 00:19
Total/NA	Analysis	9056A		5	634867	JMR	EET CLE	11/12/24 00:39
Total/NA	Analysis	SM 2540C		1	633835	TAV2	EET CLE	11/04/24 11:15

Client Sample ID: DUP-01

Date Collected: 10/28/24 00:00

Date Received: 11/01/24 08:00

Lab Sample ID: 240-214080-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6010D		1	634221	RKT	EET CLE	11/06/24 18:52
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6020B		1	634287	AJC	EET CLE	11/06/24 13:02
Total/NA	Analysis	9056A		1	634867	JMR	EET CLE	11/12/24 00:59

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Lab Chronicle

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Client Sample ID: DUP-01
Date Collected: 10/28/24 00:00
Date Received: 11/01/24 08:00

Lab Sample ID: 240-214080-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	634867	JMR	EET CLE	11/12/24 01:18
Total/NA	Analysis	SM 2540C		1	633835	TAV2	EET CLE	11/04/24 11:15

Client Sample ID: MW-16-01
Date Collected: 10/28/24 10:47
Date Received: 11/01/24 08:00

Lab Sample ID: 240-214080-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6010D		1	634221	RKT	EET CLE	11/06/24 18:56
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6020B		1	634287	AJC	EET CLE	11/06/24 13:05
Total/NA	Analysis	9056A		1	634867	JMR	EET CLE	11/12/24 01:38
Total/NA	Analysis	9056A		5	634867	JMR	EET CLE	11/12/24 01:58
Total/NA	Analysis	SM 2540C		1	633835	TAV2	EET CLE	11/04/24 11:15

Client Sample ID: MW-16-09
Date Collected: 10/29/24 09:41
Date Received: 11/01/24 08:00

Lab Sample ID: 240-214080-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Dissolved	Analysis	6010D		1	634221	RKT	EET CLE	11/06/24 19:04
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6010D		1	634221	RKT	EET CLE	11/06/24 19:00
Dissolved	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Dissolved	Analysis	6020B		1	634287	AJC	EET CLE	11/06/24 13:10
Total Recoverable	Prep	3005A			634002	BN	EET CLE	11/05/24 14:00
Total Recoverable	Analysis	6020B		1	634287	AJC	EET CLE	11/06/24 13:08
Total/NA	Analysis	9056A		2	634867	JMR	EET CLE	11/12/24 03:56
Total/NA	Analysis	9056A		10	634867	JMR	EET CLE	11/12/24 04:16
Total/NA	Analysis	SM 2540C		1	633835	TAV2	EET CLE	11/04/24 11:15

Laboratory References:

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

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-214080-1

Laboratory: Eurofins Cleveland

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

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

Chain of Custody Record

Client Information			Sampler: <i>Jacob Krenz/Elke Knecht</i>	Lab PM: Brooks, Kris M	Carrier Tracking No(s):	COC No: 240-125257-43696.1							
Client Contact: Mr. Vincent Buening			Phone: 734-295-9804	E-Mail: Kris.Brooks@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1							
Company: TRC Environmental Corporation.		PWSID:	Analysis Requested			Job #:							
Address: 1540 Eisenhower Place		Due Date Requested:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 6020	2540C_Calcd - TDS	9056A_28D - Chloride, Fluoride and Sulfate	Dissolved metals 6010B, 6020	Total Number of containers	Preservation Codes: D - HNO3 N - None			
City: Ann Arbor		TAT Requested (days):								Other:			
State, Zip: MI, 48108-7080		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Phone: 313-971-7080(Tel) 313-971-9022(Fax)		PO #: 214273											
Email: vbuening@trccompanies.com		WO #: 553931.0003.0000											
Project Name: CCR DTE Belle River Bottom Ash Basins		Project #: 24016463											
Site: Michigan		SSOW#:											
Sample Identification			Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 6020	2540C_Calcd - TDS	9056A_28D - Chloride, Fluoride and Sulfate	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
<i>MW-16-02</i>			<i>10-28</i>	<i>1225</i>	<i>G</i>	<i>Water</i>			/	/	/	<i>3</i>	
<i>MW-16-03</i>			<i>10-28</i>	<i>1147</i>	<i>↓</i>	<i>Water</i>			/	/	/	<i>3</i>	
<i>MW-16-04</i>			<i>10-28</i>	<i>1317</i>	<i>↓</i>	<i>Water</i>			/	/	/	<i>3</i>	
<i>Dep-01</i>			<i>10-28</i>	<i>—</i>	<i>G</i>	<i>Water</i>			/	/	/	<i>3</i>	
<i>MP-16-01</i>			<i>10-28-24</i>	<i>1047</i>	<i>G</i>	<i>Water</i>		X	X	X		<i>3</i>	
<i>MW-16-04</i>			<i>10-29-24</i>	<i>0941</i>	<i>G</i>	<i>Water</i>		X	X	X	X	<i>4</i>	
						<i>Water</i>							
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:							
Empty Kit Relinquished by:			Date:	Time:	Method of Shipment:								
Relinquished by: <i>AC My</i>		Date/Time: <i>10-30-24/0850</i>	Company: <i>TRC</i>	Received by: <i>TRC Storage</i>		Date/Time: <i>10-30-24/0850</i>	Company: <i>TRC</i>						
Relinquished by: <i>TRC Storage</i>		Date/Time: <i>10-30-24/1620</i>	Company: <i>TRC</i>	Received by: <i>AC My</i>		Date/Time: <i>10-30-24/1620</i>	Company: <i>TRC</i>						
Relinquished by: <i>AC My</i>		Date/Time: <i>10-31-24/0820</i>	Company: <i>TRC</i>	Received by: <i>Tilly Mc...</i>		Date/Time: <i>10/31/24</i>	Company: <i>BETA</i>						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:									



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

Client AK Site Name _____ Cooler unpacked by: _____

Cooler Received on 11-1-24 Opened on 11-1-24

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

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

Eurofins Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used Wet Ice Blue Ice Dry Ice Water None
 See Multiple Cooler Form

1 Cooler temperature upon receipt _____ °C Corrected Cooler Temp. _____ °C
 IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. _____ °C

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

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

- 13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC447997
- 14. Were VOAs on the COC? Yes No
- 15 Were air bubbles >6 mm in any VOA vials? Larger than this Yes No NA
- 16 Was a VOA trap blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 17 Was a LL Hg or Me Hg trap blank present? Yes No

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

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

19 SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container
 Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

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

Login #: _____

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: 17	1.3	1.4	Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____	0.9	1.0	Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
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EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wellce Blue Ice Dry Ice Water None

See Temperature Excursion Form



11/11/2024

Login Container Summary Report

240-214080

Temperature readings

11/13/2024

Client Sample ID	Lab ID	Container Type	Container pH	Preservation Temp	Preservation Added	Preservation Lot Number
MW-16-02	240-214080-A-1	Plastic 60 mL - unpreserved				
MW-16-02	240-214080-B-1	Plastic 250ml - with Nitric Acid	<2			
MW-16-02	240-214080-C-1	Plastic 500ml - unpreserved				
MW-16-03	240-214080-A-2	Plastic 60 mL - unpreserved				
MW-16-03	240-214080-B-2	Plastic 250ml - with Nitric Acid	<2			
MW-16-03	240-214080-C-2	Plastic 500ml - unpreserved				
MW-16-04	240-214080-A-3	Plastic 60 mL - unpreserved				
MW-16-04	240-214080-B-3	Plastic 250ml - with Nitric Acid	<2			
MW-16-04	240-214080-C-3	Plastic 500ml - unpreserved				
DUP-01	240-214080-A-4	Plastic 60 mL - unpreserved				
DUP-01	240-214080-B-4	Plastic 250ml - with Nitric Acid	<2			
DUP-01	240-214080-C-4	Plastic 500ml - unpreserved				
MW-16-01	240-214080-A-5	Plastic 60 mL - unpreserved				
MW-16-01	240-214080-B-5	Plastic 500ml - unpreserved				
MW-16-01	240-214080-C-5	Plastic 500ml - with Nitric Acid	<2			
MW-16-09	240-214080-A-6	Plastic 60 mL - unpreserved				
MW-16-09	240-214080-B-6	Plastic 500ml - unpreserved				
MW-16-09	240-214080-C-6	Plastic 500ml - with Nitric Acid	<2			
MW-16-09	240-214080-D-6	Plastic 500ml - w/ Nitric - Dis.	<2			



ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/20/2024 3:43:40 PM

JOB DESCRIPTION

CCR DTE Belle River Bottom Ash Basins

JOB NUMBER

240-216762-1

Eurofins Cleveland

Job Notes

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

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

Authorization



Generated
12/20/2024 3:43:40 PM

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



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Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-216762-1

Qualifiers

Metals

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

Glossary

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

Case Narrative

Client: TRC Environmental Corporation.
Project: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-216762-1

Job ID: 240-216762-1

Eurofins Cleveland

Job Narrative 240-216762-1

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

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

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

Receipt

The samples were received on 12/17/2024 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.7°C, 1.9°C and 2.2°C.

Metals

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

Eurofins Cleveland

Method Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-216762-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-216762-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-216762-1	MW-16-03	Water	12/11/24 13:40	12/17/24 10:30
240-216762-2	DUP-01	Water	12/11/24 00:00	12/17/24 10:30

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Detection Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-216762-1

Client Sample ID: MW-16-03

Lab Sample ID: 240-216762-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Calcium	34000		1000	ug/L	1		6020B	Total Recoverable

Client Sample ID: DUP-01

Lab Sample ID: 240-216762-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Calcium	35000		1000	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

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Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-216762-1

Client Sample ID: MW-16-03

Lab Sample ID: 240-216762-1

Date Collected: 12/11/24 13:40

Matrix: Water

Date Received: 12/17/24 10:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	34000		1000	ug/L		12/18/24 14:00	12/19/24 18:18	1

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Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-216762-1

Client Sample ID: DUP-01

Lab Sample ID: 240-216762-2

Date Collected: 12/11/24 00:00

Matrix: Water

Date Received: 12/17/24 10:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	35000		1000	ug/L		12/18/24 14:00	12/19/24 18:21	1

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QC Sample Results

Client: TRC Environmental Corporation.
 Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-216762-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-639245/1-A
Matrix: Water
Analysis Batch: 639548

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 639245

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1000	U	1000	ug/L		12/18/24 14:00	12/19/24 17:17	1

Lab Sample ID: LCS 240-639245/2-A
Matrix: Water
Analysis Batch: 639548

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 639245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	25000	23800		ug/L		95	80 - 120



QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-216762-1

Metals

Prep Batch: 639245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216762-1	MW-16-03	Total Recoverable	Water	3005A	
240-216762-2	DUP-01	Total Recoverable	Water	3005A	
MB 240-639245/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-639245/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 639548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-216762-1	MW-16-03	Total Recoverable	Water	6020B	639245
240-216762-2	DUP-01	Total Recoverable	Water	6020B	639245
MB 240-639245/1-A	Method Blank	Total Recoverable	Water	6020B	639245
LCS 240-639245/2-A	Lab Control Sample	Total Recoverable	Water	6020B	639245

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-216762-1

Client Sample ID: MW-16-03

Lab Sample ID: 240-216762-1

Date Collected: 12/11/24 13:40

Matrix: Water

Date Received: 12/17/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			639245	BN	EET CLE	12/18/24 14:00
Total Recoverable	Analysis	6020B		1	639548	AJC	EET CLE	12/19/24 18:18

Client Sample ID: DUP-01

Lab Sample ID: 240-216762-2

Date Collected: 12/11/24 00:00

Matrix: Water

Date Received: 12/17/24 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			639245	BN	EET CLE	12/18/24 14:00
Total Recoverable	Analysis	6020B		1	639548	AJC	EET CLE	12/19/24 18:21

Laboratory References:

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

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: CCR DTE Belle River Bottom Ash Basins

Job ID: 240-216762-1

Laboratory: Eurofins Cleveland

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

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

1.6/1.7

Regulatory Program: DW NPDES RCRA Other:

Eurofins Environment Testing America

Client Contact		Project Manager: Vincent Buning		Site Contact:		Date: 12-11-24		COC No:		
TRC Companies		Email: vbuning@trccompanies.com		Tel/Fax: 934-904-3302		Lab Contact: Kris Brooks		Carrier:		
1540 Eisenhower Place		Analysis Turnaround Time		TALS Project #:		Sampler:		For Lab Use Only:		
Ann Arbor Michigan, 48108		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS		TAT if different from Below <u>5 Days</u>		Walk-in Client:		Lab Sampling:		
734-971-7080 Phone		<input type="checkbox"/> 2 weeks		NA		Job / SDG No.:				
Project Name: DTE CCR Belle River Bottom Ash Basins		<input type="checkbox"/> 1 week		Site: Belle River Power Plant, MI		Sample Specific Notes:				
P O # 214273		<input type="checkbox"/> 2 days		P O # 214273						
		<input type="checkbox"/> 1 day								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Total Calcium (6020)		
MW-16-03	12/11	1340	G	GW	1	N	N	X		
DUP-01	12/11	—	G	GW	1	N	N	X		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						4				
Possible Hazard Identification:						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										
Special Instructions/QC Requirements & Comments: TRC EDD Required										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____		Corr'd: _____		Therm ID No.:	
Relinquished by: <i>[Signature]</i>		Company: TRC		Date/Time: 12/17/24 1640		Received by: TRC Storage		Company: TRC		Date/Time: 12/17/24 1640
Relinquished by: <i>[Signature]</i>		Company: TRC		Date/Time: 12/16/24 1228		Received by: <i>[Signature]</i>		Company: ZETA		Date/Time: 12/16/24 1430
Relinquished by: <i>[Signature]</i>		Company: ZETA		Date/Time: 12/16/24 1435		Received in Laboratory by: KATHARINE MARTIN		Company: EUL		Date/Time: 12/17/24 1030



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

Client TRC Site Name _____
 Cooler Received on 12/17/24 Opened on 12/17/24 Cooler unpacked by W. Mark
 FedEx: 1st Grd Exp DPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____
 Eurofins Cooler # EC Foam Box _____ Client Cooler Box Other _____
 Packing material used. Bubble-Wrap Foam Plastic Bag None Other _____
COOLANT Water Blue Ice _____ Dry Ice Water None _____

1 Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN # 17 (CF 10.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

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

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No NA
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA
 - 3 Shippers' packing slip attached to the cooler(s)? Yes No NA
 - 4 Did custody papers accompany the sample(s)? Yes No NA
 - 5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA
 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA
 - 7 Did all bottles arrive in good condition (Unbroken)? Yes No NA
 - 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA
 - 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA
 - 10 Were correct bottle(s) used for the test(s) indicated? Yes No NA
 - 11 Sufficient quantity received to perform indicated analyses? Yes No NA
 12. Are these work share samples and all listed on the COC? Yes No NA
 - If yes, Questions 13-17 have been checked at the originating laboratory
 - 13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC450408
 14. Were VOAs on the COC? Yes No NA
 - 15 Were air bubbles >6 mm in any VOA vials? Yes No NA
 - 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA
 - 17 Was a LL Hg or Me Hg trip blank present? Yes No NA
- Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

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

19. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired
 Sample(s) _____ were received in a broken container
 Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory
 Time preserved. _____ Preservative(s) added/Lot number(s) _____
 VOA Sample Preservation - Date/Time VOAs Frozen. _____

Eurofins Cleveland Sample Receipt Multiple Cooler Form

Login # _____

Cooler Description (Circle)		IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____	1.6	1.7	Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____	2.1	2.2	Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____	1.8	1.9	Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client	box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

See Temperature Excursion Form



12/17/2024

Login Container Summary Report

240-216762

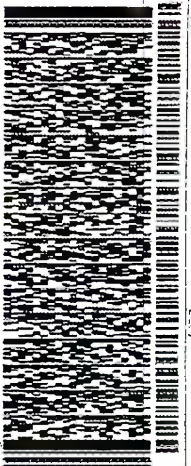
Temperature readings

12/20/2024

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
MW-16-03	240-216762-A-1	Plastic 250ml --with Nitric Acid	<2	_____	_____	_____
DUP-01	240-216762-A-2	Plastic 250ml - with Nitric Acid	<2	_____	_____	_____

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1300 0585 7136
 710 EUROFIN'S BARBERTON
 EUROFIN'S BARBERTON
 180 S. VAN BUREN AVENUE
 BARBERTON OH 44203
 (330) 487-9390
 ZIP:



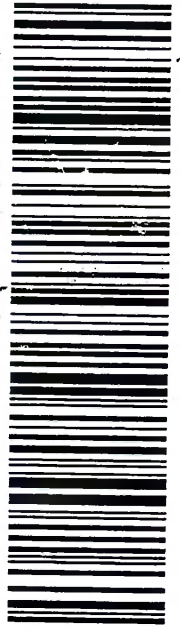
FedEx TUE - 17 DEC 12:00P

TRK# 7708 1881 8702 PRIORITY OVERNIGHT

0201

64 CAKA

OH,US 44203 CLE

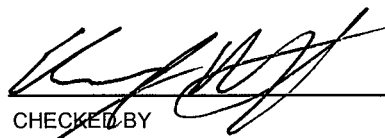


Field Data



PROJECT NAME:	DTE: BRPP BABs-DB 2024 Sampling
PROJECT NUMBER:	553931.0003.0000
PROJECT MANAGER:	Vince Buening
SITE LOCATION:	4505 King Road China Township, MI 48054
DATES OF FIELDWORK:	4/23/2024 TO 4/24/2024
PURPOSE OF FIELDWORK:	1SA2024 CCR Sampling Event
WORK PERFORMED BY:	A. Whaley, E. Rinehart

 4/30/24
SIGNED DATE

 4/30/24
CHECKED BY DATE



GENERAL NOTES

PROJECT NAME: DTE: BRPP BABs-DB 2024 Sa	DATE: <u>4/23/24</u>	TIME ARRIVED: <u>0750</u>
PROJECT NUMBER: 553931.0003.0000	AUTHOR: <u>A. Whaley, E. Rinehart</u>	TIME LEFT: <u>1630</u>

WEATHER		
TEMPERATURE: <u>54</u> °F	WIND: <u>5-10</u> MPH	VISIBILITY: <u>Overcast - Rain</u>
WORK / SAMPLING PERFORMED		
<u>Sign in w/ security / Site contact</u>		
<u>Sitewide water levels</u>		
<u>Train Elciz on Submersible Pump</u>		
<u>offsite - 1100</u>		
<u>onsite 1500</u>		
<u>Dislodge Pump from MW-16-10 ~ 45 min</u>		

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
Jake Krenz	TRC	Technical Coordinator
Jason Roggenbuck	DTE	Site Contact
<u>Samie Stanislawski</u>		

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
GW	NM	

A. Whaley 4/23/24
 SIGNED DATE

E. Rinehart 4/30/24
 CHECKED BY DATE



GENERAL NOTES

PROJECT NAME: DTE: BRPP BABs-DB 2024 Sa	DATE: <u>4/24/2024</u>	TIME ARRIVED: <u>0730</u>
PROJECT NUMBER: 553931.0003.0000	AUTHOR: <u>A. Whaley</u> , E. Rinehart	TIME LEFT: <u>1630</u>

WEATHER		
TEMPERATURE: <u>36-39</u> °F	WIND: <u>5-12</u> MPH	VISIBILITY: <u>overcast-snow-air</u>

WORK / SAMPLING PERFORMED
<u>Sign on w/ security / site contact</u>
<u>Calibrate YSI</u>
<u>Sample MW-16-04, MW-16-01, MW-16-02, MW-16-03 (Dup 01), MW-16-09</u>

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
Jake Krenz	TRC	Technical Coordinator
Jason Roggenbuck	DTE	Site Contact
<u>Jamie Stanislawski</u>		

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
GW	NM	<u>Purged to ground</u>

A. Whaley 4/30/24
 SIGNED DATE

Chip R... 4/30/24
 CHECKED BY DATE



EQUIPMENT SUMMARY

PROJECT NAME:	DTE: BRPP BABs-DB 2024	SAMPLER NAME:	A. Whaley, E. Rinehart
PROJECT NO.:	553931.0003.0000		

WATER LEVEL MEASUREMENTS COLLECTED WITH:

HERON DIPPER-T	TRC A2
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)

PRODUCT LEVEL MEASUREMENTS COLLECTED WITH:

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

DEPTH TO BOTTOM OF WELL MEASUREMENTS COLLECTED WITH:

HERON DIPPER-T	TRC A2
NAME AND MODEL OF INSTRUMENT	SERIAL NUMBER (IF APPLICABLE)

PURGING METHOD

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

SAMPLING METHOD

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

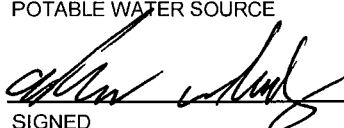
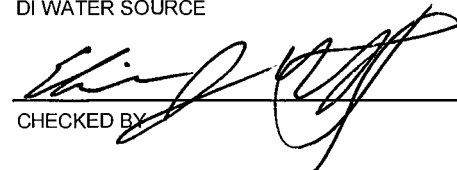
NA	0.45 MICRON
NAME AND MODEL OF FILTRATION DEVICE	FILTER TYPE AND SIZE

DEDICATED TEFLON TUBING	<input checked="" type="checkbox"/> LOW-FLOW SAMPLING EVENT
TUBING TYPE	

PURGE WATER DISPOSAL METHOD

GROUND
 DRUM
 POTW
 POLYTANK
 OTHER _____

DECONTAMINATION AND FIELD BLANK WATER SOURCE

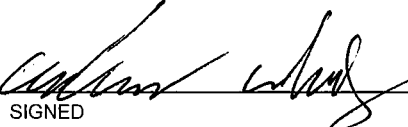
STORE BOUGHT	LABORATORY PROVIDED
POTABLE WATER SOURCE	DI WATER SOURCE
 4/30/24	 4/30/24
SIGNED DATE	CHECKED BY DATE

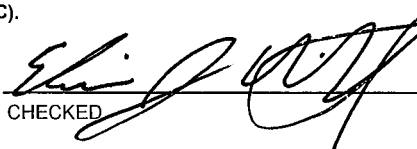


WATER LEVEL DATA

PROJECT NAME: DTE: BRPP BABs-DB 2024 Sampling		DATE: <u>4/23/24</u>				
PROJECT NUMBER: 553931.0003.0000		AUTHOR: <u>A. Whaley</u> E. Rinehart				
WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-16-01	<u>0900</u>	<u>TOL</u>	<u>15.69</u>	<u>NM</u>	<u>NA</u>	<u>NM</u>
MW-16-02	<u>0852</u>	<u>TOL</u>	<u>13.33</u>	↓	↓	↓
MW-16-03	<u>0848</u>	<u>TOL</u>	<u>16.05</u>			
MW-16-04	<u>0840</u>	<u>TOL</u>	<u>16.52</u>			
MW-16-05	<u>0833</u>	<u>TOL</u>	<u>16.81</u>			
MW-16-06	<u>0825</u>	<u>TOL</u>	<u>17.65</u>			
MW-16-07	<u>0820</u>	<u>TOL</u>	<u>16.81</u>			
MW-16-08	<u>0815</u>	<u>TOL</u>	<u>15.69</u>			
MW-16-09	<u>0845</u>	<u>TOL</u>	<u>16.15</u>			
MW-16-10	<u>0830</u>	<u>TOL</u>	<u>17.74</u>			
MW-16-11A	<u>0836</u>	<u>TOL</u>	<u>16.92</u>			

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


 SIGNED _____
 DATE 4/30/24


 CHECKED _____
 DATE 4/30/24



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: DTE: BRPP BABs-DB 2024 Sampling	MODEL: YSI Pro DSS	SAMPLER: <u>AW</u> ER
PROJECT NO.: 553931.0003.0000	SERIAL #: <u>Rented</u>	DATE: <u>4/24/24</u>

PH CALIBRATION CHECK

(LOT #): <u>pH 7 3611332</u> (EXP. DATE): <u>NOV125</u>	(LOT #): <u>pH 4-10 3610691</u> (EXP. DATE): <u>SEP125</u>	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
<u>7.04 / 7.04</u>	<u>4.00 / 4.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>0715</u>
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): <u>46A 0971</u> (EXP. DATE): <u>5/20/25</u>	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
<u>1170 / 1170</u>	<u>15.1</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>0750</u>
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): <u>234 100626</u> (EXP. DATE): <u>SEP125</u>	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
<u>228 / 228</u>	<u>13.2</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>0756</u>
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CAL. READING	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / SATURATED AIR			
<u>1030 / 1030</u>	<u>12.8</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>0800</u>
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): <u>D1</u> (EXP. DATE): <u>D1</u>	(LOT #): <u>A3097</u> (EXP. DATE): <u>NOV125</u>		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
<u>0.0 / 0.0</u>	<u>100 / 100</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>0810</u>
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

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

NOTES

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

--	--

Calvin Whaley 4/30/24
SIGNED DATE

Chris [Signature] 4/30/24
CHECKED BY DATE



WATER SAMPLE LOG

PROJECT NAME: DTE: BRPP BABs-DB 2024 Sa	PREPARED	CHECKED
PROJECT NUMBER: 553931.0003.0000	BY: <u>AW ER</u> DATE: <u>4/26/24</u>	BY: <u>ER</u> DATE: <u>4/30/24</u>

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

PURGING	TIME: <u>0840</u>	DATE: <u>4/26/24</u>	SAMPLE	TIME: <u>0925</u>	DATE: <u>4/26/24</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED) <input type="checkbox"/> BAILER	PH: <u>7.61</u> SU	CONDUCTIVITY: <u>1206</u> umhos/cm	ORP: <u>-143.7</u> mV	DO: <u>0.23</u> mg/L	
DEPTH TO WATER: <u>16.65</u> T/ PVC	TURBIDITY: <u>55.12</u> NTU		<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
DEPTH TO BOTTOM: NM T/ PVC	TEMPERATURE: <u>10.3</u> °C	OTHER: <u>-</u>			
WELL VOLUME: NM <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	COLOR: <u>Mostly clear</u>	ODOR: <u>None</u>			
VOLUME REMOVED: <u>4.5</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
COLOR: <u>Clear</u> ODOR: <u>None</u>	FILTRATE COLOR: <u>-</u>	FILTRATE ODOR: <u>-</u>			
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP				
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH 7.6-8.2 (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
<u>0840</u>	<u>100</u>	<u>7.06</u>	<u>1206</u>	<u>-30.0</u>	<u>1.54</u>	<u>4.41</u>	<u>9.9</u>	<u>17.50</u>	INITIAL
<u>0845</u>		<u>7.11</u>	<u>1197</u>	<u>-44.5</u>	<u>1.14</u>	<u>21.10</u>	<u>9.8</u>	<u>17.70</u>	<u>0.5</u>
<u>0850</u>		<u>7.19</u>	<u>1180</u>	<u>-87.9</u>	<u>0.62</u>	<u>34.80</u>	<u>9.2</u>	<u>17.80</u>	<u>1.0</u>
<u>0855</u>		<u>7.28</u>	<u>1181</u>	<u>-106.4</u>	<u>1.90</u>	<u>61.20</u>	<u>9.8</u>		<u>1.5</u>
<u>0900</u>		<u>7.41</u>	<u>1195</u>	<u>-123.5</u>	<u>0.64</u>	<u>220.10</u>	<u>10.0</u>		<u>2.0</u>
<u>0905</u>		<u>7.50</u>	<u>1196</u>	<u>-124.6</u>	<u>0.60</u>	<u>100.32</u>	<u>10.0</u>		<u>2.5</u>
<u>0910</u>		<u>7.52</u>	<u>1194</u>	<u>-126.0</u>	<u>0.62</u>	<u>70.94</u>	<u>10.0</u>		<u>3.0</u>
<u>0915</u>		<u>7.56</u>	<u>1192</u>	<u>-137.3</u>	<u>0.29</u>	<u>56.20</u>	<u>10.0</u>		<u>3.5</u>
<u>0920</u>		<u>7.60</u>	<u>1192</u>	<u>-139.9</u>	<u>0.30</u>	<u>52.61</u>	<u>10.1</u>		<u>4.0</u>
<u>0925</u>		<u>7.61</u>	<u>1200</u>	<u>-143.7</u>	<u>0.23</u>	<u>55.12</u>	<u>10.3</u>		<u>4.5</u>

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

PH: +/- 0.1 COND.: +/- 10 % ORP: +/- D.O.: +/- TURB: +/- 10 % or <= 5 TEMP.: +/- 0.5°C

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

SHIPPING METHOD: <u>Courier</u>	DATE SHIPPED: <u>4/26/24</u>	AIRBILL NUMBER: <u>-</u>
COC NUMBER: <u>-</u>	SIGNATURE: <u>A. W. [Signature]</u>	DATE SIGNED: <u>4/30/24</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: BRPP BABs-DB 2024 Sa	PREPARED	CHECKED
PROJECT NUMBER: 553931.0003.0000	BY: <u>AW</u> ER	DATE: <u>4/24/24</u>
	BY: <u>EIL</u>	DATE: <u>4/30/24</u>

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

PURGING	TIME: <u>0915</u>	DATE: <u>4/24/24</u>	SAMPLE	TIME: <u>1020</u>	DATE: <u>4/24/24</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED) <input type="checkbox"/> BAILER	PH: <u>7.58</u> SU	CONDUCTIVITY: <u>1170</u> umhos/cm	ORP: <u>-118.5</u> mV	DO: <u>0.02</u> mg/L	
DEPTH TO WATER: <u>16.03</u> T/ PVC	TURBIDITY: <u>1.92</u> NTU		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
DEPTH TO BOTTOM: NM T/ PVC	TEMPERATURE: <u>10.2</u> °C	OTHER: <u>-</u>			
WELL VOLUME: NM <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	COLOR: <u>Clear</u>	ODOR: <u>None</u>			
VOLUME REMOVED: <u>6.0</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
COLOR: <u>Clear</u> ODOR: <u>None</u>	FILTRATE COLOR: _____	FILTRATE ODOR: _____			
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____				
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
<u>0950</u>	<u>200</u>	<u>7.13</u>	<u>1166</u>	<u>-70.8</u>	<u>1.35</u>	<u>2.07</u>	<u>10.1</u>	<u>16.70</u>	INITIAL
<u>955</u>	↓	<u>7.24</u>	<u>1170</u>	<u>-116.0</u>	<u>0.13</u>	<u>3.16</u>	<u>10.3</u>	<u>16.85</u>	<u>1.0</u>
<u>1000</u>	↓	<u>7.37</u>	<u>1169</u>	<u>-118.9</u>	<u>0.11</u>	<u>4.30</u>	<u>10.3</u>	↓	<u>2.0</u>
<u>1005</u>	↓	<u>7.47</u>	<u>1165</u>	<u>-133.3</u>	<u>0.02</u>	<u>6.10</u>	<u>10.2</u>	↓	<u>3.0</u>
<u>1010</u>	↓	<u>7.52</u>	<u>1168</u>	<u>-140.4</u>	<u>0.02</u>	<u>4.89</u>	<u>10.3</u>	↓	<u>4.0</u>
<u>1015</u>	↓	<u>7.55</u>	<u>1163</u>	<u>-145.6</u>	<u>0.01</u>	<u>4.44</u>	<u>10.2</u>	↓	<u>5.0</u>
<u>1020</u>	↓	<u>7.58</u>	<u>1170</u>	<u>-118.5</u>	<u>0.02</u>	<u>4.92</u>	<u>10.2</u>	↓	<u>6.0</u>

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

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

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

SHIPPING METHOD: <u>courier</u>	DATE SHIPPED: <u>4/26/24</u>	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <u>A. Whaley</u>	DATE SIGNED: <u>4/30/24</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: BRPP BABs-DB 2024 Sa	PREPARED	CHECKED
PROJECT NUMBER: 553931.0003.0000	BY: <u>AW</u> ER	DATE: <u>4/12/24</u>
	BY: <u>E12</u>	DATE: <u>4/30/24</u>

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

PURGING	TIME: <u>1030</u>	DATE: <u>4/12/24</u>	SAMPLE	TIME: <u>1105</u>	DATE: <u>4/12/24</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED) <input type="checkbox"/> BAILER	PH: <u>7.41</u> SU	CONDUCTIVITY: <u>924</u> umhos/cm	ORP: <u>-106.3</u> mV	DO: <u>0.20</u> mg/L	
DEPTH TO WATER: <u>13.42</u> T/ PVC	TURBIDITY: <u>3.98</u> NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
DEPTH TO BOTTOM: NM T/ PVC	TEMPERATURE: <u>10.3</u> °C	OTHER: _____			
WELL VOLUME: NM <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	COLOR: <u>Clear</u>	ODOR: <u>None</u>			
VOLUME REMOVED: <u>4.05</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	FILTRATE COLOR: _____ FILTRATE ODOR: _____			
COLOR: <u>Clear</u> ODOR: <u>None</u>	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____				
TURBIDITY <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER		
COMMENTS: _____					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR)
<u>1035</u>	<u>200</u>	<u>7.3-8.0</u>	<u>901</u>	<u>-66.0</u>	<u>4.20</u>	<u>0.51</u>	<u>9.6</u>	<u>13.60</u>	INITIAL
<u>1040</u>		<u>6.80</u>	<u>930</u>	<u>-37.2</u>	<u>1.47</u>	<u>41.31</u>	<u>10.4</u>		<u>1.0</u>
<u>1045</u>		<u>7.18</u>	<u>929</u>	<u>-65.5</u>	<u>1.07</u>	<u>25.23</u>	<u>10.3</u>		<u>2.0</u>
<u>1050</u>		<u>7.28</u>	<u>924</u>	<u>-83.5</u>	<u>0.24</u>	<u>12.17</u>	<u>10.4</u>		<u>3.0</u>
<u>1055</u>		<u>7.35</u>	<u>925</u>	<u>-98.4</u>	<u>0.12</u>	<u>4.83</u>	<u>10.4</u>		<u>4.0</u>
<u>1100</u>		<u>7.37</u>	<u>926</u>	<u>-61.6</u>	<u>0.10</u>	<u>4.46</u>	<u>10.3</u>		<u>5.0</u>
<u>1105</u>		<u>7.41</u>	<u>924</u>	<u>-106.3</u>	<u>0.20</u>	<u>3.98</u>	<u>10.3</u>		<u>6.0</u>

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

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

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

SHIPPING METHOD: <u>Louise</u>	DATE SHIPPED: <u>4/12/24</u>	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <u>A. White</u>	DATE SIGNED: <u>4/30/24</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: BRPP BABs-DB 2024 Sa		PREPARED		CHECKED	
PROJECT NUMBER: 553931.0003.0000		BY: <u>AWER</u>	DATE: <u>4/24/24</u>	BY: <u>EIL</u>	DATE: <u>4/30/24</u>
SAMPLE ID: <u>MW-16-03</u>		WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER			
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER					
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER					
PURGING	TIME: <u>1125</u>	DATE: <u>4/24/24</u>	SAMPLE	TIME: <u>1155</u>	DATE: <u>4/24/24</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED) <input type="checkbox"/> BAILER	PH: <u>7.65</u> SU		CONDUCTIVITY: <u>1336</u> umhos/cm		
		ORP: <u>-140.1</u> mV		DO: <u>0.01</u> mg/L	
DEPTH TO WATER: <u>16.25</u> T/ PVC		TURBIDITY: <u>1.96</u> NTU			
DEPTH TO BOTTOM: NM T/ PVC		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
WELL VOLUME: NM <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		TEMPERATURE: <u>10.2</u> °C		OTHER: _____	
VOLUME REMOVED: <u>60</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		COLOR: <u>Clear</u>		ODOR: <u>None</u>	
COLOR: <u>Clear</u> ODOR: <u>None</u>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
TURBIDITY <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		FILTRATE COLOR: _____		FILTRATE ODOR: _____	
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER		QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP- <u>01</u>		COMMENTS: _____	

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1125	200	7.07	1311	-39.3	3.57	0.54	9.4	16.0	INITIAL
1130		7.30	1336	-97.3	0.40	1.54	10.2	16.40	1.0
1135		7.34	1337	-99.8	0.27	1.72	10.2		2.0
1140		7.45	1334	-114.2	0.12	2.24	10.1		3.0
1145		7.56	1342	-131.7	0.10	2.46	10.4		4.0
1150		7.60	1342	-132.8	0.08	1.88	10.4		5.0
1155		7.65	1336	-140.1	0.01	1.96	10.2		6.0

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

PH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

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

SHIPPING METHOD: <u>Courier</u>	DATE SHIPPED: <u>4/26/24</u>	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <u>A. W. [Signature]</u>	DATE SIGNED: <u>4/30/24</u>



WATER SAMPLE LOG

PROJECT NAME: DTE: BRPP BABs-DB 2024 Sa	PREPARED	CHECKED
PROJECT NUMBER: 553931.0003.0000	BY: <u>AW</u> ER	DATE: <u>4/24/24</u>
	BY: <u>EIL</u>	DATE: <u>4/30/24</u>

SAMPLE ID: <u>MU-16-09</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1230</u>	DATE: <u>4/24/24</u>	SAMPLE	TIME: <u>1335</u>	DATE: <u>4/24/24</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED)			PH: <u>7.83</u> SU	CONDUCTIVITY: <u>2176</u> umhos/cm	
<input type="checkbox"/> BAILER			ORP: <u>-160.7</u> mV	DO: <u>0.00</u> mg/L	
DEPTH TO WATER: <u>16.42</u> T/ PVC			TURBIDITY: <u>350.95</u> NTU		
DEPTH TO BOTTOM: NM T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY		
WELL VOLUME: NM <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: <u>10.8</u> °C	OTHER: <u>-</u>	
VOLUME REMOVED: <u>6.5</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: <u>Cloudy Gray</u>	ODOR: <u>None</u>	
COLOR: <u>Clear-orange</u>	ODOR: <u>None</u>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OF)
<u>1230</u>	<u>100</u>	<u>7.13</u>	<u>2183</u>	<u>-61.9</u>	<u>2.66</u>	<u>51.91</u>	<u>9.2</u>	<u>17.20</u>	INITIAL
<u>1235</u>		<u>7.13</u>	<u>2188</u>	<u>-78.3</u>	<u>1.30</u>	<u>103.40</u>	<u>9.4</u>	<u>17.50</u>	<u>1.005</u>
<u>1240</u>		<u>7.01</u>	<u>2225</u>	<u>-87.8</u>	<u>0.67</u>	<u>186.10</u>	<u>9.7</u>	<u>17.80</u>	<u>2.010</u>
<u>1245</u>		<u>7.16</u>	<u>2128</u>	<u>-100.3</u>	<u>0.30</u>	<u>216.30</u>	<u>10.3</u>	<u>18.00</u>	<u>1.5</u>
<u>1250</u>		<u>7.24</u>	<u>2127</u>	<u>-106.0</u>	<u>0.18</u>	<u>224.98</u>	<u>10.6</u>	<u>18.30</u>	<u>2.0</u>
<u>1255</u>		<u>7.33</u>	<u>2118</u>	<u>-116.60</u>	<u>0.04</u>	<u>290.16</u>	<u>10.5</u>	<u>18.60</u>	<u>2.5</u>
<u>1300</u>		<u>7.44</u>	<u>2134</u>	<u>-128.8</u>	<u>0.05</u>	<u>304.11</u>	<u>10.3</u>	<u>19.00</u>	<u>3.0</u>
<u>1305</u>		<u>7.50</u>	<u>2148</u>	<u>-134.6</u>	<u>0.00</u>	<u>305.05</u>	<u>10.7</u>	<u>19.10</u>	<u>3.5</u>
<u>1310</u>		<u>7.55</u>	<u>2156</u>	<u>-139.7</u>	<u>0.00</u>	<u>297.80</u>	<u>10.8</u>	<u>19.26</u>	<u>4.0</u>
<u>1315</u>		<u>7.62</u>	<u>2166</u>	<u>-144.4</u>	<u>0.00</u>	<u>2384.11</u>	<u>10.7</u>	<u>19.40</u>	<u>4.5</u>

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

PH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

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

SHIPPING METHOD: <u>courier</u>	DATE SHIPPED: <u>4/26/24</u>	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <u>A. Volinsky</u>	DATE SIGNED: <u>4/30/24</u>



WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: DTE: BRPP BABs-DB 2024 Sar	PREPARED	CHECKED
PROJECT NUMBER: 553931.0003.0000	BY: <u>(AW) ER</u> DATE: <u>4/24/24</u>	BY: <u>ER</u> DATE: <u>4/30/24</u>

SAMPLE ID: MW-16-09

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL ORG)
1320	100	7.71	2178	-152.6	0.00	341.28	10.6	19.45	5.0
1325	↓	7.75	2185	-154.2	0.01	352.17	10.7	↓	5.5
1330	↓	7.82	2179	-154.4	0.00	348.52	10.7	↓	6.0
1335	↓	7.83	2176	-160.7	0.00	350.95	10.8	↓	6.5

Turbidity (NTU)
 13:20 341.28
 13:25 332.17
 13:30 348.52

SIGNATURE: *(Handwritten Signature)*

DATE SIGNED: 4/30/24

Table 3
 Daily pH Stabilization readings
 DTE Belle River Power Plant Bottom Ash Basins and Diverson Basin

Pg # 13 of 14

Sample ID	pH Prediction Limit	pH at stabilization prior to sampling	Sample Collection Date/Time
Bottom Ash Basin Monitoring Wells			
MW-16-01	7.0-8.1	7.58	4/24/24 / 1020
MW-16-02	7.3-8.0	7.91	4/24/24 / 1105
MW-16-03	7.5-8.2	7.65	4/24/24 / 1155
MW-16-04	7.6-8.2	7.61	4/24/24 / 0925
MW-16-09	7.7-8.6	7.83	4/24/24 / 1335
Diversion Basin Monitoring Wells			
MW-16-05	7.9-8.5	7.92	4/24/24 / 1505
MW-16-06	7.7-8.3	7.83	4/24/24 / 1525
MW-16-07	7.8-8.3	7.84	4/24/24 / 1415
MW-16-08	7.6-8.3	8.13	4/25/24 / 1323
MW-16-10	7.6-8.5	8.04	4/25/24 / 1225
MW-16-11A	7.7-8.4	8.02	4/24/24 / 1600

ER
ER

Andrew W. Hardy 4/30/24

[Signature]
 4/30/24

Client Information
 Client Contact: **Mr. Vincent Buehning**
 Company: **TRC Environmental Corporation**
 Address: **1540 Eisenhower Place**
 City: **Ann Arbor**
 State, Zip: **MI, 48108-7080**
 Phone: **313-971-7080 (Tel) 313-971-9022 (Fax)**
 Email: **vbuehning@trccompanies.com**
 Project Name: **CCR DTE Belle River Bottom Ash Basins**
 Site: **Michigan**

Sampler: **A. Whaley**
 Lab PM: **Brooks, Kris M**
 Phone: **734-210-9289**
 E-Mail: **Kris.Brooks@et.euofins.com**
 PWSID:

Carrier Tracking No(s): **240-119551-41770.1**
 State of Origin: **MI**
 Page: **Page 1 of 1**
 Job #:

Due Date Requested: **standard**
 TAT Requested (days): **standard**
 Compliance Project: **Δ Yes Δ No**
 PO #: **214273**
 WO #: **553931.0003.0000**
 Project #: **24016463**
 SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Stormwater, Other)	Field Filtered Sample (Yes or No)		Pilot/MS/MS (Yes or No)		Special Instructions/Note:
					Field Filtered	MS/MS	Pilot	MS/MS	
MW-16-04	4/24/24	0925	G	Water	N	N	N	N	
MW-16-01	4/24/24	1080	G	Water	N	N	N	N	
MW-16-02	4/24/24	1105	G	Water	N	N	N	N	
MW-16-03	4/24/24	1155	G	Water	N	N	N	N	
MW-16-09	4/24/24	1335	G	Water	N	N	N	N	
DUP-01	4/24/24	---	G	Water	N	N	N	N	

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

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

Empty Kit Relinquished by: **TRC EDD** Date:

Relinquished by: *[Signature]* Date/Time: **4/25/24 0600** Company: **TRC**
 Relinquished by: *[Signature]* Date/Time: **4/26/24 1104** Company: **TRC**
 Relinquished by: *[Signature]* Date/Time: _____ Company: _____

Custody Seals Intact: **Δ Yes Δ No**

Cooler Temperature(s) °C and Other Remarks:



PROJECT NAME:	DTE: CCR BRPP 2024 Sample & Report
PROJECT NUMBER:	553931.0003.0000
PROJECT MANAGER:	Vince Buening
SITE LOCATION:	East China, Michigan
DATES OF FIELDWORK:	10/28/2024 TO 10/29/2024
PURPOSE OF FIELDWORK:	Semi annual Groundwater Sampling 2SA24
WORK PERFORMED BY:	Jake Krenz

JL Ry 10-30-24
SIGNED DATE

Asheley West 11/11/24
CHECKED BY DATE



GENERAL NOTES

PROJECT NAME: ^{BRPP} DTE: RRL CCR RRLF Sampl	DATE: <u>Oct 28, 2024</u>	TIME ARRIVED: <u>9:00</u>
PROJECT NUMBER: 553931.0000 ³	AUTHOR: <u>Eric Rinehart</u>	TIME LEFT: <u>3:30</u>

WEATHER		
TEMPERATURE: <u>56</u> °F	WIND: <u>7</u> MPH	VISIBILITY: <u>Sunny</u>
WORK / SAMPLING PERFORMED		
<u>BRPP Water levels, Sample MW-16-03,</u>		

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
<u>Turbidity Reader issues</u>	<u>Use backup reader</u>

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
<u>Jamie S.</u>	<u>DTE</u>	<u>Site contact</u>

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
<u>Water</u>	<u>Na</u>	

 10-28-24 Adam Kost 11/11/24
 SIGNED _____ DATE _____ CHECKED BY _____ DATE _____



GENERAL NOTES

PROJECT NAME: DTE: CCR BRPP 2024 Sample	DATE: <u>10-28-24</u>	TIME ARRIVED: <u>0800</u>
PROJECT NUMBER: 553931.0003.0000	AUTHOR: Jake Krenz	TIME LEFT: 1600 <u>1300</u>


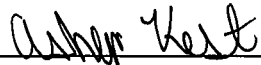
WEATHER		
TEMPERATURE: <u>70</u> °F	WIND: <u>0-5</u> MPH	VISIBILITY: <u>clear</u>

WORK / SAMPLING PERFORMED
- Split sample @ mw-16-01 with EGBE
- purged mw-16-09, Did not collect sample due to high turbidity

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
Very high turbidity @ mw-16-09	pumped well down to try and clean it out w/ submersible.

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
J. Stanislawski	DTE	check in / out
S. Holmstrom	TRC	Discussed plan for sampling mw-16-09

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
purge water	NM	purged to ground

SIGNED  DATE 10-30-24
 CHECKED BY  DATE 11/11/24



GENERAL NOTES

PROJECT NAME: DTE: CCR BRPP 2024 Sample	DATE: 10-29-24	TIME ARRIVED: 0800
PROJECT NUMBER: 553931.0003.0000	AUTHOR: Jake Krenz	TIME LEFT: 1120

WEATHER		
TEMPERATURE: 75 °F	WIND: 5-10 MPH	VISIBILITY: clear
WORK / SAMPLING PERFORMED		
purged and sampled MW-16-09, split w/ EGE		

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
still very high turbidity @ MW-16-09	collected extra field filtered metals bottle for dissolved analysis

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
S. Stanislowski	DTE	check in/out
S. Holmstrom	TRC	discussed options for sampling MW-16-09

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
purge water	NM	purged to ground

SIGNED _____ DATE 10-30-24

 CHECKED BY _____ DATE 11/11/24



EQUIPMENT SUMMARY

PROJECT NAME:	DTE: CCR BRPP 2024 Sampl	SAMPLER NAME: Eric Rinehart/Jake Krenz
PROJECT NO.:	553931.0003.0000	

WATER LEVEL MEASUREMENTS COLLECTED WITH:

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

PRODUCT LEVEL MEASUREMENTS COLLECTED WITH:

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

DEPTH TO BOTTOM OF WELL MEASUREMENTS COLLECTED WITH:

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

PURGING METHOD

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

SAMPLING METHOD

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

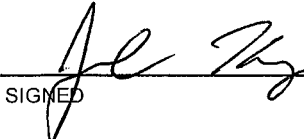
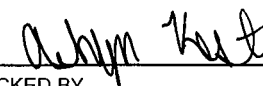
NA	NA
NAME AND MODEL OF FILTRATION DEVICE	FILTER TYPE AND SIZE

DEDICATED TEFLON TUBING	<input checked="" type="checkbox"/> LOW-FLOW SAMPLING EVENT
TUBING TYPE	

PURGE WATER DISPOSAL METHOD

GROUND
 DRUM
 POTW
 POLYTANK
 OTHER _____

DECONTAMINATION AND FIELD BLANK WATER SOURCE

STORE BOUGHT	LABORATORY PROVIDED
POTABLE WATER SOURCE	DI WATER SOURCE
 SIGNED 10-30-24 DATE	 CHECKED BY 11/11/24 DATE



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: DTE: BRPP 2024 Sample & Report	MODEL: YSI Pro DSS	SAMPLER: JK
PROJECT NO.: 553931.0003.0000	SERIAL #: PROJECT	DATE: 10-28-24

PH CALIBRATION CHECK

pH 7 (LOT #): 46A0629 (EXP. DATE): Jan/26	pH 4 / 10 (LOT #): 4681376 (EXP. DATE): Feb/26	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
7.02 / 7.02	4.00 / 4.00	<input checked="" type="checkbox"/> WITHIN RANGE	0825
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): 46C1196 (EXP. DATE): Mar/25	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
1315 / 1315	82.3	<input checked="" type="checkbox"/> WITHIN RANGE	0820
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): M714 (EXP. DATE): 10-8-24	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
227.3 / 227.3	22.7	<input checked="" type="checkbox"/> WITHIN RANGE	0830
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CAL. READING	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / SATURATED AIR			
8.72 / 8.72	20.5	<input checked="" type="checkbox"/> WITHIN RANGE	0832
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): A3907 (EXP. DATE): APR-25	(LOT #): (EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
10.0 / 10.0	/	<input type="checkbox"/> WITHIN RANGE	0830
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

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

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

NOTES

<div style="text-align: center; font-size: 2em; color: gray;">/</div>

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

<div style="text-align: center; font-size: 2em; color: gray;">/</div>

<div style="text-align: center; font-size: 2em; color: gray;">/</div>

SIGNED *[Signature]* DATE 10-30-24

CHECKED BY *[Signature]* DATE 11/11/24



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	DTE: RRLF CCR RRL ^{RRP} Sample & Report	MODEL: <u>Aqua Troll</u>	SAMPLER: ER
PROJECT NO.:	553931.000 0 .0000	SERIAL #: PROJECT	DATE: <u>10-28-24</u>

PH CALIBRATION CHECK

pH 7 (LOT #): <u>4GE0999</u> (EXP. DATE): <u>May /26</u>	pH 4 / 10 (LOT #): <u>4G-F0044</u> (EXP. DATE): <u>Jun /26</u>	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
<u>7.02 / 7.02</u>	<u>4.0 / 4.0</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1030</u>
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
<u>1215.5 / 1215.5</u>	<u>17.73</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1040</u>
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): <u>24A100343</u> (EXP. DATE): <u>1/11/2024</u>	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
<u>225 / 225</u>	<u>17.6</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1035</u>
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / SATURATED AIR			
<u>9.25 / 9.25</u>	<u>17.9</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1050</u>
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): <u>A3097</u> (EXP. DATE): <u>Apr -25</u>	(LOT #): (EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
<u>100 / 100</u>	/	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1045</u>
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

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

NOTES

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

[Signature] 10/28/24
SIGNED DATE

[Signature] 11/11/24
CHECKED BY DATE



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: DTE: CCR BRPP 2024 Sample & Report	MODEL: YSI Pro DSS	SAMPLER: JK
PROJECT NO.: 553931.0003.0000	SERIAL #: PROJECT	DATE: 10-29-24

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE):	pH 4 / 10 (LOT #): (EXP. DATE):	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
7.00 / 7.00	4.00 / 4.00	<input checked="" type="checkbox"/> WITHIN RANGE	0605
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
1315 / 1315	22.1	<input checked="" type="checkbox"/> WITHIN RANGE	0600
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
230.2 / 230.2	22.5	<input checked="" type="checkbox"/> WITHIN RANGE	0609
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / SATURATED AIR			
8.81 / 8.81	19.6	<input checked="" type="checkbox"/> WITHIN RANGE	0615
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): A3907	(LOT #):		
(EXP. DATE): ARR-25	(EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
9.97 / 10.0	/	<input checked="" type="checkbox"/> WITHIN RANGE	0600
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

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

NOTES

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

SIGNED *[Signature]* DATE 10-30-24

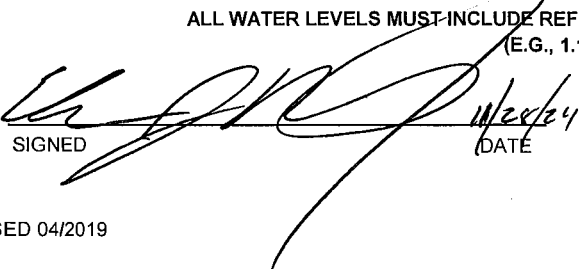
CHECKED BY *[Signature]* DATE 11/11/24

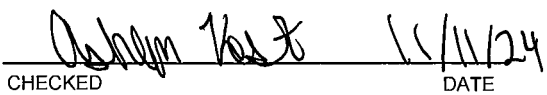


WATER LEVEL DATA

PROJECT NAME: DTE: BRPP CCR Sample & Report		DATE: 10/28/2024				
PROJECT NUMBER: 553931.0003.0000		AUTHOR: Javier Jasso, Eric Rinehart				
WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-16-01	10:09	TOC	16.01			
MW-16-02	10:11	↓	13.40			
MW-16-03	10:15		15.88			
MW-16-04	9:50 10:15		17.8			
MW-16-05	9:40		16.88			
MW-16-06	9:35		17.72			
MW-16-07	9:32		16.85			
MW-16-08	9:30		15.71			
MW-16-09	10:18		16.58			
MW-16-10	9:37		17.76			
MW-16-11A	9:45		17.00			

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


 SIGNED _____ DATE 11/28/24


 CHECKED _____ DATE 11/11/24



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample		PREPARED		CHECKED	
PROJECT NUMBER: 553931.0003.0000		BY: ER	DATE: 10/28/24	BY: Ah	DATE: 11/11/24
SAMPLE ID: MW-16-02		WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER			
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER					
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER					
PURGING		TIME: 1205	DATE: 10/28/24	SAMPLE	
PURGE METHOD: <input type="checkbox"/> PUMP PERISTALTIC PUMP				PH: 7.69	SU CONDUCTIVITY: 1206.5 umhos/cm
<input checked="" type="checkbox"/> BAILER				ORP: -200.1 mV	DO: 0.66 mg/L
DEPTH TO WATER: 13.48 T/ PVC				TURBIDITY: 0.9 NTU	
DEPTH TO BOTTOM: NM T/ PVC				<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	
WELL VOLUME: NM <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS				TEMPERATURE: 11.84 °C	OTHER:
VOLUME REMOVED: 4 <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS				COLOR: Clear	ODOR: No
COLOR: Clear		ODOR: No		FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO	
TURBIDITY				FILTRATE COLOR:	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY				FILTRATE ODOR:	
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER				QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-	
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1205	200	7.58	1205.8	-110.7	3.92	0.0	14.19	13.48	INITIAL
1210	↓	7.59	1229.2	-169.4	0.7	1.62	12.23	13.51	1
1215		7.69	1223.5	-187.8	0.64	0.7	12.06	13.47	2
1220		7.7	1207.4	-196.3	0.67	1.1	11.92	13.48	3
1225		7.69	1206.5	-200.1	0.66	0.9	11.84	—	4

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

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

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

SHIPPING METHOD: Courier	DATE SHIPPED: 10-30-24	AIRBILL NUMBER: —
COC NUMBER: —	SIGNATURE:	DATE SIGNED: 10-30-24



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample	PREPARED	CHECKED
PROJECT NUMBER: 553931.0000.0000	BY: ER DATE: 10/20/24	BY: AVH DATE: 11/11/24

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

PURGING	TIME: 1117	DATE: 10/28/24	SAMPLE	TIME: 1147	DATE: 10/28/24
PURGE METHOD: <input type="checkbox"/> PUMP PERISTALTIC PUMP <input checked="" type="checkbox"/> BAILER	PH: 7.8	SU	CONDUCTIVITY: 1766.4	umhos/cm	
DEPTH TO WATER: 15.88 T/ PVC	ORP: -198.3	mV	DO: 0.65	mg/L	
DEPTH TO BOTTOM: NM T/ PVC	TURBIDITY: 1.1	NTU	<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: NM <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	TEMPERATURE: 12.04	°C	OTHER:		
VOLUME REMOVED: 7.5 <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	COLOR: Clear		ODOR: Slight		
COLOR: Clearish	ODOR: No		FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	FILTRATE COLOR:		FILTRATE ODOR:		
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		COMMENTS: Turbidity Reader faulty - Use Cometh-		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1117	280	7.69	1744.4	-157.2	1.2	373.71	13.75	15.88	INITIAL
1122		7.7	1748.6	-182.3	0.67	465.43	12.5		1.25
1127		7.81	1785.3	-192.7	0.65	1.5	12.21		2.5
1132		7.74	1743.9	-190.6	0.65	5.2	12.1		3.75
1137		7.73	1751.3	-191.9	0.65	1.9	11.97		5.0
1142		7.76	1759.3	-196.3	0.65	1.3	12.04		6.25
1147		7.80	1766.4	-198.3	0.65	1.1	12.04	✓	7.5

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

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

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
3	40 mL	VOA	E	<input type="checkbox"/> Y <input type="checkbox"/> N	1	250ml	Plastic	B	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	500mL	PLASTIC	B	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	250 ml	PLASTIC	A	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	500ml	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	66ml	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: Courier	DATE SHIPPED: 10-30-24	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE:	DATE SIGNED: 10-30-24



WATER SAMPLE LOG

PROJECT NAME: DTE: RRLF CCR RRLF Sample		PREPARED		CHECKED	
PROJECT NUMBER: 553931- 0000 ⁰⁰⁰³ .0000		BY: ER	DATE: <u>10/28/24</u>	BY: <u>AKH</u>	DATE: <u>11/11/24</u>
SAMPLE ID: <u>MW-16-04</u>		WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER			
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER					
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER					
PURGING	TIME: <u>1247</u>	DATE: <u>10/28/24</u>	SAMPLE	TIME: <u>1317</u>	DATE: <u>10/28/24</u>
PURGE METHOD: <input type="checkbox"/> PUMP PERISTALTIC PUMP <input checked="" type="checkbox"/> BAILER		PH: <u>7.89</u> SU		CONDUCTIVITY: <u>1572.8</u> umhos/cm	
		ORP: <u>-243.9</u> mV		DO: <u>0.65</u> mg/L	
DEPTH TO WATER: <u>17.8</u> T/ PVC		TURBIDITY: <u>12.1</u> NTU			
DEPTH TO BOTTOM: <u>NM</u> T/ PVC		<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
WELL VOLUME: <u>NM</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		TEMPERATURE: <u>12.91</u> °C		OTHER:	
VOLUME REMOVED: <u>6</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		COLOR: <u>clearish</u>		ODOR: <u>slight</u>	
COLOR: <u>Clearish</u> ODOR: <u>slight</u>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO			
TURBIDITY <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		FILTRATE COLOR:		FILTRATE ODOR:	
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER		QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP- <u>01</u>			
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1247	200	7.4	1573.7	-83.9	6.72	0.0	15.78	17.8	INITIAL
1252	↓	7.5	1596.5	-186.3	0.77	7.5	13.28		1
1257		7.66	1570.9	-207.4	0.72	9.85	13.01		2
1302		7.68	1569.7	-220.8	0.69	13.5	13.0		3
1307		7.76	1583.1	-226.7	0.67	13.1	12.91		4
1312		7.81	1540.6	-236.2	0.66	12.9	12.91		5
1317		7.84	1572.8	-243.9	0.65	13.1	12.91	↓	6

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

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

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

SHIPPING METHOD: <u>Coaster</u>	DATE SHIPPED: <u>10-30-24</u>	AIRBILL NUMBER:
COC NUMBER: <u>-</u>	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>10-30-24</u>



WATER SAMPLE LOG

PROJECT NAME: # BRPS 2024 *Sample/Report* PREPARED _____ CHECKED _____

PROJECT NUMBER: 0000 557931.0003 BY: JK DATE: 10-28-24 BY: Ah DATE: 11/11/24

SAMPLE ID: mw-16-01 WELL DIAMETER: 2" 4" 6" OTHER _____

WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER _____

SAMPLE TYPE: GW WW SW DI LEACHATE OTHER _____

PURGING TIME: 1008 DATE: 10-28-24 SAMPLE TIME: 1047 DATE: 10-28-24

PURGE METHOD: PUMP PERISTALTIC PUMP dedicated bladder PH: 7.66 SU CONDUCTIVITY: 1288 umhos/cm

BAILER ORP: -171.8 mV DO: 0.05 mg/L

DEPTH TO WATER: 16.10 T/ PVC TURBIDITY: 2.12 NTU

DEPTH TO BOTTOM: NM T/ PVC NONE SLIGHT MODERATE VERY

WELL VOLUME: NA LITERS GALLONS TEMPERATURE: 12.2 °C OTHER: _____

VOLUME REMOVED: 7 LITERS GALLONS COLOR: Clear ODOR: none

COLOR: Clear ODOR: none FILTRATE (0.45 um) YES NO

TURBIDITY FILTRATE COLOR: _____ FILTRATE ODOR: _____

NONE SLIGHT MODERATE VERY QC SAMPLE: MS/MSD DUP. _____

DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: SPLIT w/ EGLE

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1012	200	7.08	1347	-67.6	1.70	3.25	12.8	16.55	INITIAL
1017	200	7.21	1298	-125.1	0.21	2.14	12.3	16.57	1
1022	200	7.27	1295	-139.7	0.11	2.42	12.2	16.60	2
1027	200	7.39	1285	-161.3	0.05	2.56	12.3	16.70	3
1032	200	7.48	1284	-168.8	0.02	2.71	12.1	16.70	4
1037	200	7.57	1273	-172.0	0.03	2.43	12.2	16.70	5
1042	200	7.63	1274	-171.9	0.02	2.46	12.2	16.70	6
1047	200	7.66	1288	-171.8	0.05	2.12	12.2	16.70	7

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

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

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
3	40 mL	VOA	E	<input type="checkbox"/> Y	<input type="checkbox"/> N	1	600 mL	Plastic	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
2	500 mL	PLASTIC	B	<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
2	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	500 mL	Plastic	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	500 mL	Plastic	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: Lab Drop off DATE SHIPPED: 10-30-24 AIRBILL NUMBER: _____

COC NUMBER: _____ SIGNATURE: [Signature] DATE SIGNED: 10-30-24



WATER SAMPLE LOG

PROJECT NAME: <u>BRPP 2024 Sample/Report</u>	PREPARED	CHECKED
PROJECT NUMBER: <u>553931.0003.0000</u>	BY: <u>JK</u>	DATE: <u>10-28-24</u>
	BY: <u>AH</u>	DATE: <u>11/11/24</u>

SAMPLE ID: <u>MW-16-09</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1110</u>	DATE: <u>10-28-24</u>	SAMPLE	TIME:	DATE:
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED) <input type="checkbox"/> BAILER	PH: _____ SU		CONDUCTIVITY: _____ umhos/cm		
DEPTH TO WATER: <u>16.55</u> T/ PVC		ORP: _____ mV		DO: _____ mg/L	
DEPTH TO BOTTOM: <u>NM</u> T/ PVC		TURBIDITY: _____ NTU			
WELL VOLUME: <u>NA</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
VOLUME REMOVED: <u>NA</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		TEMPERATURE: _____ °C		OTHER: _____	
COLOR: <u>Grey</u> ODOR: <u>Yes</u>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		COLOR: _____	
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY		FILTRATE COLOR: _____		FILTRATE ODOR: _____	
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER		QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____			
COMMENTS: <u>See next pg.</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1117	150	7.24	2483	-122.6	2.08	57.0	13.7	17.40	INITIAL
1122	150	7.26	2422	-171.1	0.24	over	12.6	18.60	0.75
1127	150	7.28	2352	-173.6	0.14	77.8	12.6	18.72	1.50
1132	150	7.42	2315	-181.4	0.07	67.6	12.5	18.90	2.25
1137	150	7.47	2317	-172.1	0.01	77.8	12.4	19.10	3.00
1142	150	7.57	2321	-179.5	0.03	99.1	12.4	19.35	3.75
1147	150	7.68	2342	-179.6	0.03	over	12.2	19.50	4.50
1152	150	7.77	2353	-177.5	0.03	over	12.1	19.70	5.25
1157	150	7.87	2362	-180.3	0.05	over	12.0	20.10	6.00
1202	150	7.85	2366	-172.0	0.04	over	12.1	20.40	6.75

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

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

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

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>10-30-24</u>



WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: <u>RRLF 7024 Sample/Report</u>		PREPARED		CHECKED	
PROJECT NUMBER: <u>557931.000a.0000</u>		BY: <u>JK</u>	DATE: <u>10-28-24</u>	BY: <u>AVH</u>	DATE: <u>11/11/24</u>

SAMPLE ID: Mw-16-09

TIME	PURGE RATE (ML/MIN)	PH (S.D.)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1207	150	7.84 7.84	2361	-163.3	0.06	over	12.5	14.15	7.50
1212	150	7.79	2357	-151.8	0.24	over	12.7	14.30	8.25
1217	150	7.79	2355	-150.2	0.22	over	12.7	14.00	9.00
1222	150	7.83	2364	-145.0	0.20	over	12.8	18.90	9.75
1227	150	7.91	2369	-143.9	0.15	over	13.0	18.90	10.50
1232	150	8.01	2380	-147.6	0.11	over	13.1	18.90	11.25
<p>No Sample collected due to turbidity, pumped down well to ~100 ft w/ submersible pump will let recharge over night and re-purge in the morning</p>									

SIGNATURE: *JK*

DATE SIGNED: 10-30-24

TRC WATER SAMPLE LOG

PROJECT NAME: <u>BRPD 2024 Sample/Report</u>	PREPARED	CHECKED
PROJECT NUMBER: <u>553931.0003.0000</u>	BY: <u>JK</u> DATE: _____	BY: <u>AK</u> DATE: <u>11/11/24</u>

SAMPLE ID: <u>mw-16-09</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>0850</u>	DATE: <u>10-29-24</u>	SAMPLE	TIME: <u>0941</u>	DATE: <u>10-29-24</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED) <input type="checkbox"/> BAILER	PH: <u>8.27</u> SU	CONDUCTIVITY: <u>2466</u> umhos/cm	ORP: <u>-155.4</u> mV	DO: <u>0.25</u> mg/L	
DEPTH TO WATER: <u>16.55</u> T/ PVC	TURBIDITY: <u>Over Range of meter</u>				
DEPTH TO BOTTOM: <u>144.30</u> T/ PVC	<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY				
WELL VOLUME: <u>NA</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	TEMPERATURE: <u>17.2</u> °C	OTHER: _____			
VOLUME REMOVED: <u>12.5</u> <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	COLOR: <u>Gray</u>	ODOR: <u>Yes</u>			
COLOR: <u>Gray</u> ODOR: <u>Yes</u>	FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY	FILTRATE COLOR: <u>Clear</u>	FILTRATE ODOR: <u>Yes</u>			
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER	COMMENTS: <u>split w/ECLE, collected filtered metals</u>				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0856	100	7.81	2441	-43.7	1.66	over	12.9	17.45	INITIAL
0901	150	7.74	2426	-34.6	4.68	over	12.9	17.86	.5
0906	150	7.87	2435	-19.4	2.02	over	12.7	18.12	2.0
0911	150	8.07	2446	-68.3	0.96	over	12.7	18.18	3.5
0916	150	8.16	2457	-88.2	0.67	105.7	12.7	18.18	5.0
0921	150	8.19	2457	-95.1	0.60	over	13.1	18.18	6.5
0926	150	8.21	2459	-121.4	0.39	over	13.0	18.18	8.0
0931	150	8.24	2461	-132.9	0.44	over	13.0	18.18	9.5
0936	150	8.25	2464	-143.3	0.34	over	13.0	18.18	11.0
0941	150	8.27	2466	-155.4	0.25	over	13.2	18.18	12.5

due to high Turb.

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

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

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

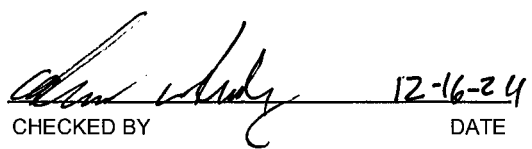
SHIPPING METHOD: <u>Lab Drop off</u>	DATE SHIPPED: <u>10-30-24</u>	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>10-30-24</u>

Client Information TRC Environmental Corporation. 1540 Eisenhower Place Ann Arbor State, Zip: MI, 48108-7080 Phone: 313-971-7080(Tel) 313-971-9022(Fax) Email: vbuening@trccompanies.com Project Name: CCR DTE Belle River Bottom Ash Basins Site: Michigan		Sampler: <i>Jacob Kent/Eli Kishinevsky</i> Lab PM: Brooks, Kris M Phone: 734-295-4801 E-Mail: Kris.Brooks@et.eurofins.com		Carrier Tracking No(s): State of Origin:		COC No: 240-125257-43696.1 Page: 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 214273 WO #: 553931.0003.0000 Project #: 24016463 SSOW#:		PWSID: Analysis Requested: 6010B, 6020 240C, Calc'd - TDS 9056A_28D - Chloride, Fluoride and Sulfate Dissolved Metals 6010B, 6020		Preservation Codes: D - HNO3 N - None Other:		Total Number of Containers:	
Sample Identification MW-16-02 MW-16-03 MW-16-04 Dup-01 MW-16-01 MW-16-04		Sample Date 10-28 10-28 10-28 10-28 10-28-24 10-28-24		Sample Time 1225 1147 1317 --- 1047 0941		Sample Type (C=Comp, G=grab) C G G C G G	
Matrix (W=water, S=solid, O=water, BT=Tissue, A=Air) Water Water Water Water Water Water Water		Field Filtered Sample (Yes or No) / / / / X X X		Preservation Codes: D N N N X X X		Special Instructions/Note: / / / / / / /	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							
Deliverable Requested: I, II, III, IV, Other (specify)							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:		Method of Shipment:		Received by:	
Relinquished by: <i>AC My</i>		Date: 10-30-24/0850		Company: TRC		Date/Time: 10-30-24/0850 Company: TRC	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Received by:	



PROJECT NAME:	DTE: BRPP BABs 2024 VER Sampling
PROJECT NUMBER:	553931.0003.0000
PROJECT MANAGER:	Vince Buening
SITE LOCATION:	4505 King Road China Township, MI 48054
DATES OF FIELDWORK:	12/11/2024 TO 12/12/2024
PURPOSE OF FIELDWORK:	2SA2024 CCR VER Sampling Event
WORK PERFORMED BY:	E. Rinehart


SIGNED _____ DATE 12/16/24


CHECKED BY _____ DATE 12-16-24



GENERAL NOTES

PROJECT NAME: DTE: BRPP BABs 2024 VER S	DATE: 12/11/2024	TIME ARRIVED: <u>1235</u>
PROJECT NUMBER: 553931.0003.0000	AUTHOR: E. Rinehart	TIME LEFT: <u>1353</u>

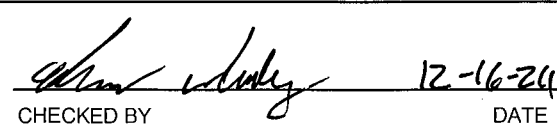
WEATHER		
TEMPERATURE: <u>35</u> °F	WIND: <u>12</u> MPH	VISIBILITY: <u>Cloudy</u>
WORK / SAMPLING PERFORMED		
<u>Ver Stab. + Sample MW-16-03</u>		

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
Jake Krenz	TRC	Technical Coordinator
Jamie Stanislawski	DTE	Site Contact

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
GW	NM	


 SIGNED _____ DATE 12/11/24


 CHECKED BY _____ DATE 12-16-24



EQUIPMENT SUMMARY

PROJECT NAME:	DTE: BRPP BABs 2024 VER	SAMPLER NAME:	E. Rinehart
PROJECT NO.:	553931.0003.0000		

WATER LEVEL MEASUREMENTS COLLECTED WITH:

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

PRODUCT LEVEL MEASUREMENTS COLLECTED WITH:

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

DEPTH TO BOTTOM OF WELL MEASUREMENTS COLLECTED WITH:

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

PURGING METHOD

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

SAMPLING METHOD

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

NA	0.45 MICRON
NAME AND MODEL OF FILTRATION DEVICE	FILTER TYPE AND SIZE

DEDICATED TEFLON TUBING	<input checked="" type="checkbox"/> LOW-FLOW SAMPLING EVENT
TUBING TYPE	

PURGE WATER DISPOSAL METHOD

GROUND
 DRUM
 POTW
 POLYTANK
 OTHER _____

DECONTAMINATION AND FIELD BLANK WATER SOURCE

STORE BOUGHT	LABORATORY PROVIDED
POTABLE WATER SOURCE	DI WATER SOURCE

 SIGNED 12/16/24
 DATE

 CHECKED BY 12-16-24
 DATE



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	DTE: BRPP BABs 2024 VER Sampling	MODEL: <i>Dg Tral 600</i>	SAMPLER: ER
PROJECT NO.:	553931.0003.0000	SERIAL #: <i>A2 OTE Proj sub</i>	DATE: 12/11/24 - 12/12/24

PH CALIBRATION CHECK

pH 7 (LOT #): <i>4C10253</i> (EXP. DATE): <i>Aug/26</i>	pH 4 / 10 (LOT #): <i>4C-10445</i> (EXP. DATE): <i>Sep/26</i>	CAL. RANGE	TIME	
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD			
<i>7.06 / 7.06</i>	<i>4.0 / 4.0</i>	<input checked="" type="checkbox"/> WITHIN RANGE	<i>950</i>	<12/11>
<i>/</i>	<i>/</i>	<input type="checkbox"/> WITHIN RANGE		<12/12>
<i>/</i>	<i>/</i>	<input type="checkbox"/> WITHIN RANGE		<MISC>
<i>/</i>	<i>/</i>	<input type="checkbox"/> WITHIN RANGE		

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): <i>4C10212</i> (EXP. DATE): <i>Sep/25</i>	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME	
POST-CAL. READING / STANDARD				
<i>842.52 / 842.52</i>	<i>4°</i>	<input checked="" type="checkbox"/> WITHIN RANGE	<i>1010</i>	<12/11>
<i>/</i>		<input type="checkbox"/> WITHIN RANGE		<12/12>
<i>/</i>		<input type="checkbox"/> WITHIN RANGE		<MISC>
<i>/</i>		<input type="checkbox"/> WITHIN RANGE		

ORP CALIBRATION CHECK

CAL. READING (LOT #): <i>236100250</i> (EXP. DATE): <i>Aug/28</i>	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME	
POST-CAL. READING / STANDARD				
<i>253 / 253</i>	<i>4</i>	<input checked="" type="checkbox"/> WITHIN RANGE	<i>1005</i>	<12/11>
<i>/</i>		<input type="checkbox"/> WITHIN RANGE		<12/12>
<i>/</i>		<input type="checkbox"/> WITHIN RANGE		<MISC>
<i>/</i>		<input type="checkbox"/> WITHIN RANGE		

D.O. CALIBRATION CHECK

CAL. READING	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME	
POST-CAL. READING / SATURATED AIR				
<i>12.76 / 12.76</i>	<i>4</i>	<input checked="" type="checkbox"/> WITHIN RANGE	<i>955</i>	<12/11>
<i>/</i>		<input type="checkbox"/> WITHIN RANGE		<12/12>
<i>/</i>		<input type="checkbox"/> WITHIN RANGE		<MISC>
<i>/</i>		<input type="checkbox"/> WITHIN RANGE		

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME	
(LOT #): <i>A3097</i> (EXP. DATE): <i>Apr 25</i>	(LOT #): (EXP. DATE):			
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD			
<i>100 / 100</i>	<i>/</i>	<input checked="" type="checkbox"/> WITHIN RANGE	<i>1000</i>	<12/11>
<i>/</i>	<i>/</i>	<input type="checkbox"/> WITHIN RANGE		<12/12>
<i>/</i>	<i>/</i>	<input type="checkbox"/> WITHIN RANGE		<MISC>
<i>/</i>	<i>/</i>	<input type="checkbox"/> WITHIN RANGE		

COMMENTS

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

NOTES

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

[Signature]
SIGNED _____ DATE *12/11/24*

[Signature]
CHECKED BY _____ DATE *12-16-24*



WATER SAMPLE LOG

PROJECT NAME: DTE: BRPP BABs 2024 VER S		PREPARED		CHECKED	
PROJECT NUMBER: 553931.0003.0000		BY: ER	DATE: 12/11/24	BY: A. White	DATE: 12-16-24
SAMPLE ID: MW-16-03		WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER			
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER					
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER					
PURGING	TIME: 1300	DATE: 12/11/24	SAMPLE	TIME: 1340	DATE: 12/11/24
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED) <input type="checkbox"/> BAILER		PH: 7.66 SU		CONDUCTIVITY: 2094.3 umhos/cm	
		ORP: -118.1 mV		DO: 0.21 mg/L	
DEPTH TO WATER: 15.85 T/ PVC		TURBIDITY: 0.69 NTU			
DEPTH TO BOTTOM: NM T/ PVC		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
WELL VOLUME: NM <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		TEMPERATURE: 10.52 °C		OTHER:	
VOLUME REMOVED: 13 <input checked="" type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		COLOR: Clear		ODOR: No	
COLOR: Clear		ODOR: No		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		FILTRATE COLOR:		FILTRATE ODOR:	
DISPOSAL METHOD: <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER		QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP- 01		COMMENTS:	

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1300	325	7.01	2094	14.7	1.37	0.0	9.6	15.85	INITIAL
1305	}	6.62	2096.3	22.2	0.19	0.55	10.87	—	1.625
1310		7.27	2086.7	-51.8	0.13	0.42	10.87	15.9	3.25
1315		7.43	2081.2	-82.6	0.14	0.71	11.15	—	4.875
1320		7.51	2039.7	-93.9	0.13	0.15	10.16	—	6.5
1325		7.57	2093.9	-103.6	0.15	0.78	10.87	15.87	8.125
1330		7.61	2099.1	-109.7	0.17	0.90	10.84	15.92	9.75
1335		7.64	2096.7	-114.7	0.19	0.58	10.88	—	11.375
1340		7.66	2094.3	-118.1	0.21	0.69	10.52	15.9	13.00
1345									14.625

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

pH: +/- 0.1 COND.: +/- 10% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

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

SHIPPING METHOD: Carrier	DATE SHIPPED: 12-16-24	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 12/11/24

Table 3

Daily pH Stabilization readings
DTE Belle River Power Plant Bottom Ash Basins and Diverson Basin

Sample ID	pH Prediction Limit	pH at stabilization prior to sampling	Sample Collection Date/Time
Bottom Ash Basin Monitoring Wells			
MW-16-03	7.5-8.2	7.66	12/11/24 11346

Checked
[Signature] 12-16-24

Appendix B

Data Quality Reviews

Laboratory Data Quality Review Groundwater Monitoring Event April 2024 (Detection Monitoring) DTE Electric Company Belle River Power Plant (DTE BRPP)

Groundwater samples were collected by TRC for the April 2024 sampling event. Samples were analyzed for anions, total metals, and total dissolved solids by Eurofins Cleveland, located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-203470-1.

During the April 2024 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 Boron	SW846 3005A/6010D
Total Calcium and Iron	SW846 3005A/6020B
Total Dissolved Solids	SM 2540C

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

Data Quality Review Procedure

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

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

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

This data usability report addresses the following items:

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

Review Summary

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

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

QA/QC Sample Summary

- Target analytes were not detected in the method blanks.
- A field blank and equipment blank were not submitted with this sample set.
- LCS recoveries for all target analytes were within laboratory control limits.
- MS/MSD analyses were performed on sample MW-16-04 for total boron, calcium, and iron; the percent recoveries (%Rs) and relative percent differences (RPDs) were within acceptance criteria.
- A laboratory duplicate analysis was not performed on a sample from this data set.
- Samples DUP-01/MW-16-03 were submitted as the field duplicate pair with this data set; all criteria were met.

Laboratory Data Quality Review Groundwater Monitoring Event October 2024 (Detection Monitoring) DTE Electric Company Belle River Power Plant (DTE BRPP)

Groundwater samples were collected by TRC for the October 2024 sampling event. Samples were analyzed for anions, total and/or dissolved metals, and total dissolved solids by Eurofins Cleveland, located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-214080-1.

During the October 2024 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 and/or Dissolved Boron	SW846 3005A/6010D
Total and/or Dissolved Calcium and Iron	SW846 3005A/6020B
Total Dissolved Solids	SM 2540C

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

Data Quality Review Procedure

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

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

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

This data usability report addresses the following items:

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

Review Summary

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

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

QA/QC Sample Summary

- TDS was analyzed slightly after the 7th day of collection for select samples. However, there is no impact on data usability since the samples were analyzed for TDS on the 7th day after collection.
- Target analytes were not detected in the method blanks.
- A field blank and equipment blank were not submitted with this sample set.
- LCS recoveries for all target analytes were within laboratory control limits.
- MS/MSD analyses and laboratory duplicate analyses was not performed on a sample from this data set.
- Samples DUP-01/MW-16-04 were submitted as the field duplicate pair with this data set; all criteria were met.

**Laboratory Data Quality Review
Groundwater Monitoring Event December 2024
(Detection Verification Monitoring)
DTE Electric Company Belle River Power Plant (DTE BRPP)**

The groundwater sample was collected by TRC for the December 2024 sampling event. The sample was analyzed for total calcium by Eurofins Cleveland, located in Barberton, Ohio. The laboratory analytical results are reported in laboratory report 240-216762-1.

During the December 2024 verification event, a groundwater sample was collected from the following well:

Bottom Ash Basins:

- MW-16-03

The sample was analyzed for the following constituent:

Analyte Group	Method
Total Calcium	SW846 3005A/6020B

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

Data Quality Review Procedure

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

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

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

This data usability report addresses the following items:

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

Review Summary

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

- The reviewed Appendix III constituent 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

- Calcium was not detected in the method blank.
- A field blank and equipment blank were not submitted with this sample set.
- The LCS recovery for calcium was within laboratory control limits.
- MS/MSD analyses and laboratory duplicate analyses was not performed on a sample from this data set.
- Samples DUP-01/MW-16-03 were submitted as the field duplicate pair with this data set; all criteria were met.