2022 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

BOTTOM ASH POND 2

Sherburne County (Sherco) Generating Plant Becker, Minnesota

Prepared for:

Northern States Power Company, a Minnesota Corporation

January 31, 2023



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Bottom Ash Pond 2 Becker, Minnesota

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Geologist under the laws of the State of Minnesota.

Additionally, I certify that this report has been prepared to meet the requirements of § 257.90(e), Annual groundwater monitoring and corrective action report, as included in 40 CFR Part 257, Subpart D, Disposal of Coal Combustion Residuals from Electric Utilities.

LICENSED PROFESSIONAL GEOLOGIST

Signature of Preparer:

David Katzner, P.G. #57700 Carlson McCain, Inc.

Date: January 31, 2023

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EXECUTIVE SUMMARY

Bottom Ash Pond 2 at the Sherburne County Generating Plant is subject to groundwater monitoring and corrective action requirements under U.S. Code of Federal Regulations, Title 40, Parts §257.90 to §257.98. Bottom Ash Pond 2 operated under the detection monitoring program in §257.94 at both the start of this annual reporting period on January 1, 2022 and at the end of the annual reporting period on December 31, 2022. Statistical analysis performed on year 2022 groundwater data indicated no statistically significant increases over background for Appendix III to 40 CFR §257 constituents pursuant to §257.94(e). As such, no additional notifications were required, and Bottom Ash Pond 2 ended the current annual reporting period in detection monitoring under §257.94.

Because Bottom Ash Pond 2 operated under the detection monitoring program in §257.94 during 2022, statistical analysis to determine statistically significant levels above groundwater protection standards for one or more of the constituents listed in Appendix IV to 40 CFR §257 pursuant to §257.95(g) (i.e. assessment monitoring) was not performed. As such, no remedies were selected pursuant to §257.97 and no remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.

1. INTRODUCTION

This report presents the documentation of the status of groundwater monitoring and corrective action for the year 2022 (YR2022) for Bottom Ash Pond 2 (BAP2) at the Sherburne County Generating Plant (Sherco) located in Becker, Minnesota. BAP2 is owned and operated by Northern States Power Company, a Minnesota Corporation (NSPM).

BAP2 is an existing coal combustion residuals (CCR) impoundment and is required to comply with provisions of the U.S. Code of Federal Regulations (CFR), Title 40, Parts 257 and 261 relating to disposal of CCR from electric utilities. In particular, this report addresses the requirements of 40 CFR Section 257.90(e), annual groundwater monitoring and corrective action for YR2022.

This report has been prepared in general accordance with the reporting procedures outlined in the Sherco Bottom Ash Pond 2 CCR Groundwater Sampling and Analysis Plan (Carlson McCain, 2020b). Any deviations from the requirements of the Groundwater Sampling and Analysis Plan are described in subsequent sections of this report.

1.1 Annual Groundwater Monitoring Report Requirements

According to §257.90(e), CCR units must prepare an annual groundwater monitoring and corrective action report each year that complies with the following:

"For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1). At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:

- (1) A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;
- (2) Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- (3) In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

- **(4)** A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and
- **(5)** Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
- (6) A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:
 - (i) At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;
 - (ii) At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;
 - (iii) If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to § 257.94(e):
 - (A) Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase; and
 - (B) Provide the date when the assessment monitoring program was initiated for the CCR unit.
 - (iv) If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to § 257.95(g) include all of the following:
 - (A) Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase;
 - (B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;
 - (C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and
 - (D) Provide the date when the assessment of corrective measures was completed for the CCR unit.
 - (v) Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection; and
 - (vi) Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

Section 5.4 of the CCR Groundwater Sampling and Analysis Plan (Carlson McCain, 2020b) also includes a list of items to be included in the annual report that are similar to items 1 through 5 above, with the addition of a water table contour map using data collected from the current year.

This report contains four additional sections following the introduction:

- Section 2 (Site Description) briefly describes the site location and hydrogeologic setting.
- Section 3 (Monitoring Results) discusses the reporting requirements of the CCR Sampling and Analysis Plan and §257.90(e).
- Section 4 (Discussion) summarizes key actions completed in YR2022, describes any problems reported in YR2022 and the actions to resolve the problems, and key activities projected for 2023.
- Section 5 provides a list of referenced documents.

2. SITE DESCRIPTION

BAP2 is located in the City of Becker, Sherburne County, Minnesota. BAP2 is approximately 18 acres in size and is part of a larger generating plant site. Construction of BAP2 was completed in 2020 and no modifications to the facility have been made since. The BAP2 location is shown on Figure 1 and an aerial photograph and site layout map for BAP2 are shown on Figure 2.

2.1 Site Hydrogeology

The site hydrogeology is discussed in more detail in the Bottom Ash Pond 2 Groundwater Monitoring System Certification (Carlson McCain, 2020a), which was prepared for compliance with 40 CFR §257.91. Facility hydrogeology is briefly summarized below for convenience. Unless otherwise cited, the data presented in this section is credited to Carlson McCain, 2020a.

The Facility is located in the Anoka Sand Plain physiographic region. The site consists of moderate to highly permeable alluvial deposits above and below a low-permeability glacial till identified as the Superior till. Precambrian granite, the first bed rock encountered, is considered impermeable. Groundwater flows southwest beneath the Facility toward the Mississippi River, which is the regional groundwater discharge for the surficial sand and gravel aquifer. The till layer exhibits variable thickness and is absent in some locations, and no perched groundwater conditions have been identified above the till. Groundwater travel velocities are estimated at 4 to 54 feet/year.

The conceptual model for the hypothetical (or potential) release of a constituent of concern (COC) from the BAP2 focuses on groundwater as the transport mechanism. The water table beneath BAP2 typically occurs below the Superior till. Exfiltration from BAP2 area is anticipated to move vertically downward from the base until it reaches the water table and/or till contact. If the exfiltration first contacts the till, it may flow through the till in the downgradient direction but may also flow locally along the till contact to a zone of higher permeability within the till or a discontinuity of the till until it reaches the water table. Upon reaching the water table, a COC would likely travel mainly horizontally to the southwest and toward the Mississippi River.

3. MONITORING RESULTS

Section 3.1 below presents the monitoring results obtained during YR2022 in terms of the specific requirements of §257.90(e) that are to be included in this report.

3.1 Compliance with §257.90(e)

3.1.1 Groundwater Monitoring System (§257.90(e)(1))

The area of BAP2 and all upgradient and downgradient monitoring well locations included in the BAP2 CCR groundwater monitoring system are shown and labeled on Figure 2. A summary of the monitoring wells included in the BAP2 CCR Groundwater Monitoring System is included in Table 1.

3.1.2 Well Installation or Decommissioning (§257.90(e)(2))

No monitoring wells that are part of the groundwater monitoring system for BAP2 were installed or decommissioned during YR2022.

3.1.3 Summary of Monitoring Data (§257.90(e)(3))

Monitoring data collected during YR2022 is summarized in Tables 2 and 3 and results are provided in Tables 4 and 5. Table 2 summarizes the data collected and includes the number of groundwater samples that were collected for analysis for each upgradient and downgradient well, the dates the samples were collected, and whether the samples were required by the detection monitoring (i.e. constituents listed Appendix III to 40 CFR §257, hereafter referred to as "Appendix III constituents") or assessment monitoring (i.e. constituents listed in Appendix IV of 40 CFR §257, hereafter referred to as "Appendix IV constituents") programs. Table 3 summarizes the analytical parameters and the number of times that each parameter was analyzed for each well in the groundwater monitoring system. A summary of the spring 2022 monitoring results is provided on Table 4 and a summary of the fall 2022 monitoring results is provided on Table 5.

Baseline Monitoring Data

As required by §257.94(b), a baseline data set was completed by collecting eight independent samples from each of the wells in the groundwater monitoring system from March 2 through July 30, 2020. Each of the baseline samples were analyzed for the detection monitoring/Appendix III constituents and the assessment monitoring/Appendix IV constituents. Summary data from the eight baseline monitoring events and Laboratory reports and field datasheets for the baseline dataset are included the 2020 CCR Annual Groundwater and Corrective Action Monitoring Report (Carlson McCain, 2021).

Groundwater Elevations and Flow Direction

Groundwater elevations and flow direction in the vicinity of the BAP2 during the spring and fall of 2022 monitoring events are shown on the water table elevation contour maps in Figures 3 and 4, respectively. The contours were derived from water level measurements from the wells included in the CCR groundwater monitoring system for BAP2 along with other nearby monitoring wells and water level piezometers not included in the BAP2 CCR monitoring system. For both events, the flow direction was generally to the southwest. The flow direction is consistent with historical data from over 20 years of monitoring at the facility and is also consistent with the regional groundwater flow direction towards the Mississippi River.

Groundwater elevations at the BAP2 monitoring system wells continued to be low during YR2022 compared to recent years but were approximately 1.2 feet higher on average during the fall of 2022 monitoring event compared to the fall of 2021 monitoring event. Groundwater elevations for the fall 2022 monitoring event were also calculated to be approximately 1.75 feet above historic lows. The low groundwater levels at BAP2 are consistent with drought conditions experienced throughout Minnesota during 2021 and 2022. No significant changes in groundwater gradients or flow direction have been observed due to low groundwater levels in the vicinity of BAP2.

3.1.4 Transition Between Monitoring Programs (§257.90(e)(4))

No transition from the detection monitoring program to the assessment monitoring program occurred during YR2022.

3.1.5 Other Information (§257.90(e)(5))

No other information is required to be reported in this CCR Annual Groundwater Monitoring and Corrective Action Report pursuant to §257.90 through §257.98.

4. DISCUSSION

§257.90(e) states that "For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year."

Pursuant to the rule requirements, Section 4.1 below discusses the key actions completed for the groundwater monitoring program at the BAP2; Section 4.2 discusses any problems encountered with the groundwater monitoring and actions to resolve such problems; and Section 4.3 discusses key activities that may occur in the upcoming year.

4.1 Key Actions Completed

Key actions that were completed during YR2022 include the following items:

- The 2021 Annual CCR Groundwater Monitoring and Corrective Report (Carlson McCain, 2022) was completed, placed in the facility's operating record on January 31, 2022, and posted on the BAP2's publicly available website by February 28, 2022.
- Eight of nine monitoring system wells were sampled during the spring event conducted on May 3-4, 2022 and analyzed for all Appendix III constituents as required by §257.94(b) and (c). Well P-152A could not be sampled due to low water levels.
- Eight of nine monitoring system wells were sampled during the fall monitoring event conducted on October 31 to November 2, 2022 and analyzed for all Appendix III constituents as required by §257.94(b) and (c). Well P-152A could not be sampled due to low water levels.
- Statistical evaluation of the spring and fall monitoring event data was performed on July 19, 2022 and December 23, 2022, respectively, for compliance with §257.93(h) to determine whether a statistically significant increase has occurred for Appendix III constituents at the monitoring wells.

4.2 Problems

4.2.1 Problems Encountered

Low Groundwater Level Issues

Low groundwater levels prevented samples from being collected from well P-152A during the spring and fall monitoring events during YR2022. Attempts were made to collect samples from the well using the dedicated bladder pump installed in the well during both events and a non-dedicated submersible pump and associated tubing during the spring event. The water level in well P-152A was below the top of the bladder pumps which prevented the bladder pumps from functioning.

Submersible pumps also generally need at least a one-foot water column in wells for the pumps to work, and the water column was 0.8 feet during the spring monitoring event. The water column in well P-152A during the fall event was 2.19 feet, however, the field sampler elected to not attempt sampling the well with a submersible pump. The submersible pump was not attempted likely due to concerns with obtaining poor quality samples that tend to cause detections of certain metals that are not representative of groundwater.

P-177 Fall Sample

All of the parameters analyzed, except pH, in the original sample from well P-177 during the fall monitoring were non-detect, which is unusual. Further review of past data compared to fall 2022 results from well P-177 indicates the non-detect parameters in the P-177 sample are anomalous. Both equipment rinse and duplicate samples for the fall monitoring event were collected at well P-177, and the rinse sample exhibited detectable concentrations of Appendix III constituents that were less than 20% relative percent difference from the duplicate sample. The rinse sample results also were comparable to past results from well P-177. It appears the results for the fall well P-177 rinse sample were switched with the water sample from well P-177 and is a likely result of mislabeling samples in the field.

Other Problems

No other significant problems with the groundwater monitoring system, or deviations from the CCR Groundwater Sampling and Analysis Plan were reported at the facility during YR2022. No corrective action was required at the facility during YR2022.

4.2.2 Resolution of Problems

Low Groundwater Level Issues

Low groundwater levels prevented samples from being collected from well P-152A during the spring and fall monitoring events, which represents a data gap from both the spring and fall monitoring events.

It is unknown whether groundwater levels will recover sufficiently to allow sampling of well P-152A using the dedicated bladder pump in the well during the spring 2023 monitoring event. As such, NSPM may take action(s) to eliminate this data gap including but not limited to the following:

- Modifying the BAP2 CCR groundwater monitoring system.
- Replacing well P-152A with a deeper well at the same location prior to the spring 2023 monitoring event.
- Lower the dedicated bladder pump in the well approximately 0.5 feet to maximize the ability to obtain samples from the well.

Alternatively, NSPM may elect to wait for groundwater levels to sufficiently recover to be able to sample the well with the dedicated bladder pump in the well. Considering BAP2 has five upgradient wells to pool for interwell statistical analysis, missing data from one background well for possibly several monitoring events should not significantly affect data interpretation at BAP2. Background water quality at BAP2 continues to be accurately represented without samples from well P-152A in YR2022.

P-177 Fall Sample

Since it appears the results for the fall well P-177 rinse sample were switched with the water sample from well P-177, the results from the well P-177 water sample were replaced with the rinse sample from well P-177 in NSPM's groundwater database for BAP2. As such, the data from the P-177 rinse sample are used for data interpretation at the location instead of the apparent water sample results from well P-177.

4.3 Key Activities for 2023

The following key actions are anticipated at the BAP2 in the year 2023:

- 1. Routine, semi-annual detection monitoring events at monitoring system wells are planned in the spring between March 15 and May 15, 2023 and in the fall between September 15 and November 15, 2023.
- 2. Statistical evaluation of monitoring event data for compliance with §257.93(h) to determine whether a statistically significant increase has occurred for Appendix III constituents at the monitoring wells.

5.0 REFERENCES

Carlson McCain, 2020a. CCR Groundwater Monitoring System Certification, Bottom Ash Pond 2, Sherco Generating Plant, prepared for Northern States Power Company, A Minnesota Corporation, September 21, 2020.

Carlson McCain, 2020b. CCR Groundwater Sampling and Analysis Plan, Bottom Ash Pond 2, Sherco Generating Plant, prepared for Northern States Power Company, A Minnesota Corporation, September 21, 2020.

Carlson McCain, 2020c. Statistical Analysis Plan, Bottom Ash Pond 2, Sherco Generating Plant, prepared for Northern States Power Company, A Minnesota Corporation, September 21, 2020.

Carlson McCain, 2021. 2020 CCR Annual Groundwater Monitoring and Corrective Action Report, Bottom Ash Pond 2, Sherco Generating Plant, prepared for Northern States Power Company, A Minnesota Corporation, January 28, 2021.

Carlson McCain, 2022. 2021 CCR Annual Groundwater Monitoring and Corrective Action Report, Bottom Ash Pond 2, Sherco Generating Plant, prepared for Northern States Power Company, A Minnesota Corporation, January 31, 2022.

Tables

Table 1
CCR Groundwater Monitoring System
Bottom Ash Pond 2

	Minnesota		Loca	tion	Elevation	Screen	Well	Well		
	Unique	Date	Site Coord	inates (ft)	Top of	Length	Diameter	Depth		Hydrologic
Well ID	Well ID	Installed	Easting	Northing	Riser Pipe	(ft)	(inches)	(ft)	Monitoring Status	Location
P-17	NA	8/26/81	2030284.10	866284.10	964.34	20	2	58.76	Routine Semi-annual	Upgradient
P-152A	806318	10/10/14	2031471.60	866696.40	965.87	10	2	42.35	Routine Semi-annual	Upgradient
P-158	812967	9/23/15	2029122.00	866410.00	966.55	10	2	49.16	Routine Semi-annual	Upgradient
P-173	844707	10/30/19	2029804.64	865401.54	998.49	10	2	80.30	Routine Semi-annual	Downgradient
P-174	844706	10/31/19	2029310.84	865400.22	1000.67	10	2	82.27	Routine Semi-annual	Downgradient
P-175	844705	10/31/19	2029018.22	865613.31	1002.92	10	2	84.15	Routine Semi-annual	Downgradient
P-176	844703	11/1/19	2029018.73	865941.35	1002.65	10	2	84.18	Routine Semi-annual	Downgradient
P-177	844704	11/4/19	2029567.92	866324.19	966.26	10	2	46.44	Routine Semi-annual	Upgradient
P-178A	844708	10/29/19	2030540.43	865533.40	966.46	10	2	47.40	Routine Semi-annual	Upgradient

*Notes:

Elevation is feet above mean sea level

Table 2
Summary of Data Collected
Bottom Ash Pond 2

		Upgradient Wells	
		Sampl	e Dates
Well ID	Number of Samples	Spring 2022 ¹	Fall 2022 ¹
P-17	2	5/4/2022	11/1/2022
P-152A	0	NS ²	NS ²
P-158	2	5/4/2022	11/1/2022
P-177	2	5/4/2022	11/1/2022
P-178A	2	5/4/2022	11/2/2022

		Downgradient Wells	
		Sampl	e Dates
Well ID	Number of Samples	Spring 2022 ¹	Fall 2022 ¹
P-173	2	5/3/2022	10/31/2022
P-174	2	5/3/2022	10/31/2022
P-175	2	5/3/2022	10/31/2022
P-176	2	5/4/2022	10/31/2022

¹ Sampled for detection monitoring for parameters listed in Appendix III of 40 CFR §257 as required by §257.94(a).

² No Sample. Low groundwater levels prevented a sample from being collected from the well during the specified monitoring event.

Table 3
Count of Parameters Analyzed by Well
Bottom Ash Pond 2

		App	endix III I	Parameters	6				
Parameter				Well ID an	d Number	of Samples	3		
Parameter	P-01A-1	P-17	P-22	P-23	P-152A	P-155	P-156	P-157	P-158
Boron, total (mg/L)	2	2	2	2	0	2	2	2	2
Calcium, total (mg/L)	2	2	2	2	0	2	2	2	2
Chloride, total (mg/L)	2	2	2	2	0	2	2	2	2
Fluoride, total (mg/L)	2	2	2	2	0	2	2	2	2
pH (lab) (pH)	2	2	2	2	0	2	2	2	2
Sulfate, total (mg/L)	2	2	2	2	0	2	2	2	2
Total Dissolved Solids (mg/L)	2	2	2	2	0	2	2	2	2

		App	endix IV	Parameters	5				
Dagamatag				Well ID ar	d Number	of Samples	6		
Parameter	P-01A-1	P-17	P-22	P-23	P-152A	P-155	P-156	P-157	P-158
Antimony, total (mg/L)	0	0	0	0	0	0	0	0	0
Arsenic, total (mg/L)	0	0	0	0	0	0	0	0	0
Barium, total (mg/L)	0	0	0	0	0	0	0	0	0
Beryllium, total (mg/L)	0	0	0	0	0	0	0	0	0
Cadmium,total (mg/L)	0	0	0	0	0	0	0	0	0
Chromium, total (mg/L)	0	0	0	0	0	0	0	0	0
Cobalt, total (mg/L)	0	0	0	0	0	0	0	0	0
Fluoride, total (mg/L)	0	0	0	0	0	0	0	0	0
Lead, total (mg/L)	0	0	0	0	0	0	0	0	0
Lithium Total (mg/L)	0	0	0	0	0	0	0	0	0
Mercury, total (mg/L)	0	0	0	0	0	0	0	0	0
Molybdenum, total (mg/L)	0	0	0	0	0	0	0	0	0
Selenium, total (mg/L)	0	0	0	0	0	0	0	0	0
Thallium, total (mg/L)	0	0	0	0	0	0	0	0	0
Radium, 226 and 228 combined (pCi/L)	0	0	0	0	0	0	0	0	0

Table 4
Spring 2022 Groundwater Summary Data
Bottom Ash Pond 2

				Appe	ndix III Paı	rameters					
						Well I	D and Samp	le Date			
Parameter	Units	GWPS	P-17	P-152A ¹	P-158	P-173	P-174	P-175	P-176	P-177	P-178A
			5/4/2022	5/5/2022	5/4/2022	5/3/2022	5/3/2022	5/3/2022	5/4/2022	5/4/2022	5/4/2022
Boron, total	mg/L	NA	0.069		0.96	0.15	0.38	0.2	0.39	0.11	0.16
Calcium, total	mg/L	NA	56		100	74	82	66	75	62	37
Chloride, total	mg/L	NA	8.3		7.5	6.7	2.9	2.4	2.8	2.7	5.4
Fluoride, total	mg/L	NA	< 0.75		<0.75	<0.75	< 0.75	< 0.75	<0.75	< 0.75	< 0.75
pH, Lab	pН	NA	7.85		7.69	7.78	7.73	7.84	7.74	7.82	7.96
Sulfate, total	mg/L	NA	14		130	24	54	28	50	21	29
Total Dissolved Solids	mg/L	NA	240		480	310	370	270	340	260	260

				Fie	eld Param	eters					
						Well II	and Samp	ole Date			
Parameter	Units	GWPS	P-17	P-152A ¹	P-158	P-173	P-174	P-175	P-176	P-177	P-178A
			5/4/2022	5/5/2022	5/4/2022	5/3/2022	5/3/2022	5/3/2022	5/4/2022	5/4/2022	5/4/2022
ORP	mV	NA	154		154	184	171	170	134	152	158
Oxygen, dissolved	mg/L	NA	8		8.9	7.6	8	9.3	8.7	7.9	8.8
pH, field	pН	NA	7.6		7.3	7.3	7.5	7.6	7.4	7.3	7.6
Specific Cond, field	µmhos/cm	NA	450		840	550	550	410	610	500	500
Static Water Level	ft	NA	40.41	41.45	42.58	74.51	77.01	79.44	79.03	42.35	42.33
Temperature	degrees C	NA	10.2		10.5	8.8	9.3	10.3	10.9	10.6	10.9
Turbidity, field	NTU	NA	0.6		0.3	1.7	1.5	3.2	2.6	0.62	0.96
Water Level Elevation	ft	NA	923.93	924.42	923.97	923.98	923.66	923.48	923.62	923.91	924.13

GWPS = Groundwater Protection Standard

NA = Not Applicable

Two dashed lines = Not Analyzed

Downgradient Well

¹ Low groundwater levels prevented a sample from being collected from the well on the specified date.

Table 5
Fall 2022 Groundwater Summary Data
Bottom Ash Pond 2

				Appe	ndix III Pa	rameters					
						Well II	D and Samp	le Date			
Parameter	Units	GWPS	P-17	P-152A ¹	P-158	P-173	P-174	P-175	P-176	P-177	P-178A
			11/1/2022	11/3/2022	11/1/2022	10/31/2022	10/31/2022	10/31/2022	10/31/2022	11/1/2022	11/2/2022
Boron, total	mg/L	NA	< 0.050		0.66	0.21	0.46	0.36	0.35	0.1	0.15
Calcium, total	mg/L	NA	60		97	79	100	100	74	80	49
Chloride, total	mg/L	NA	15		4.8	7	3.3	8.1	2.8	3.1	6.9
Fluoride, total	mg/L	NA	< 0.75		< 0.75	< 0.75	<0.75	<0.75	<0.75	<0.75	< 0.75
pH, Lab	pН	NA	7.85		7.71	7.73	7.7	7.78	7.79	7.87	7.93
Sulfate, total	mg/L	NA	16		120	26	57	110	42	18	66
Total Dissolved Solids	mg/L	NA	250		430	320	440	390	320	310	310

				Fie	eld Param	eters					
						Well II	and Samp	ole Date			
Parameter	Units	GWPS	P-17	P-152A ¹	P-158	P-173	P-174	P-175	P-176	P-177	P-178A
			11/1/2022	11/3/2022	11/1/2022	10/31/2022	10/31/2022	10/31/2022	10/31/2022	11/1/2022	11/2/2022
ORP	mV	NA	120		130	152	151	144	141	127	52
Oxygen, dissolved	mg/L	NA	7.7		9.1	8.3	8.9	7.8	9.5	8.3	8.4
pH, field	pН	NA	7.8		7.5	7.5	7.4	7.6	7.5	7.3	7.6
Specific Cond, field	µmhos/cm	NA	340		520	500	160	550	470	450	1030
Static Water Level	ft	NA	39.46	40.16	41.83	73.75	76.26	78.65	78.22	41.51	41.57
Temperature	degrees C	NA	10.2		10.3	10.8	11.3	12.5	11.7	10.7	11.8
Turbidity, field	NTU	NA	4.1		0.81	0.75	1.2	1.9	3.4	2.1	2.6
Water Level Elevation	ft	NA	924.88	925.71	924.72	924.74	924.41	924.27	924.43	924.75	924.89

GWPS = Groundwater Protection Standard

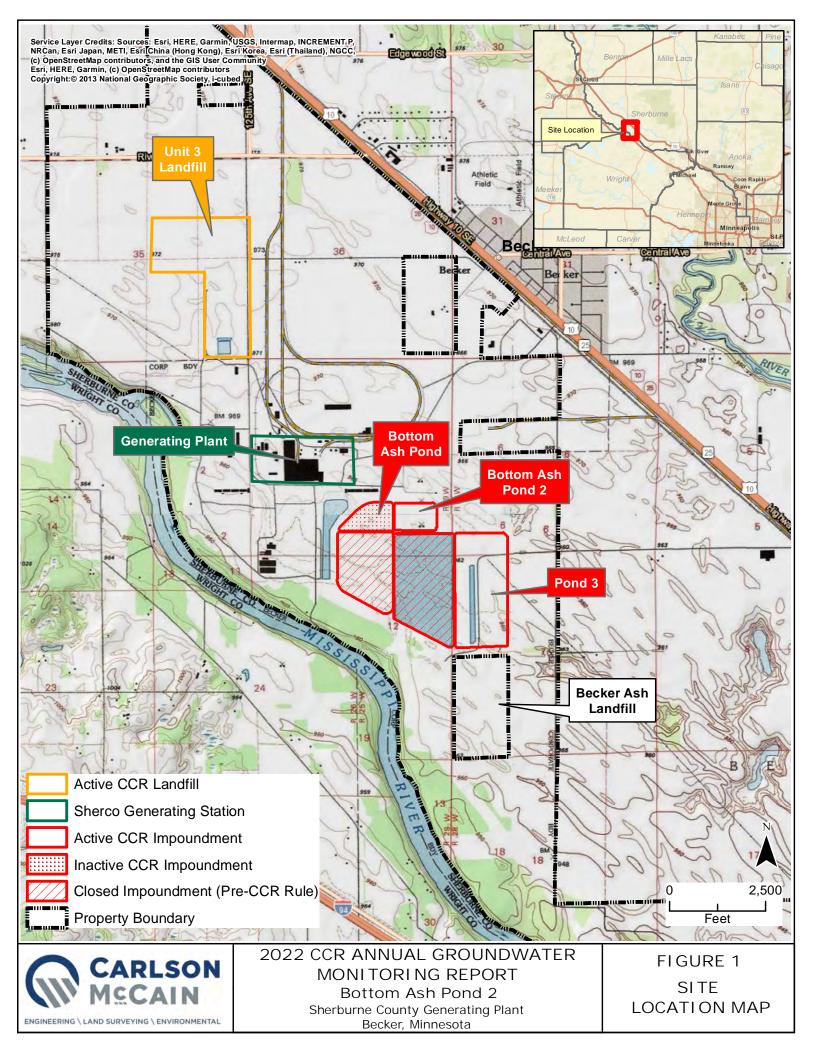
NA = Not Applicable

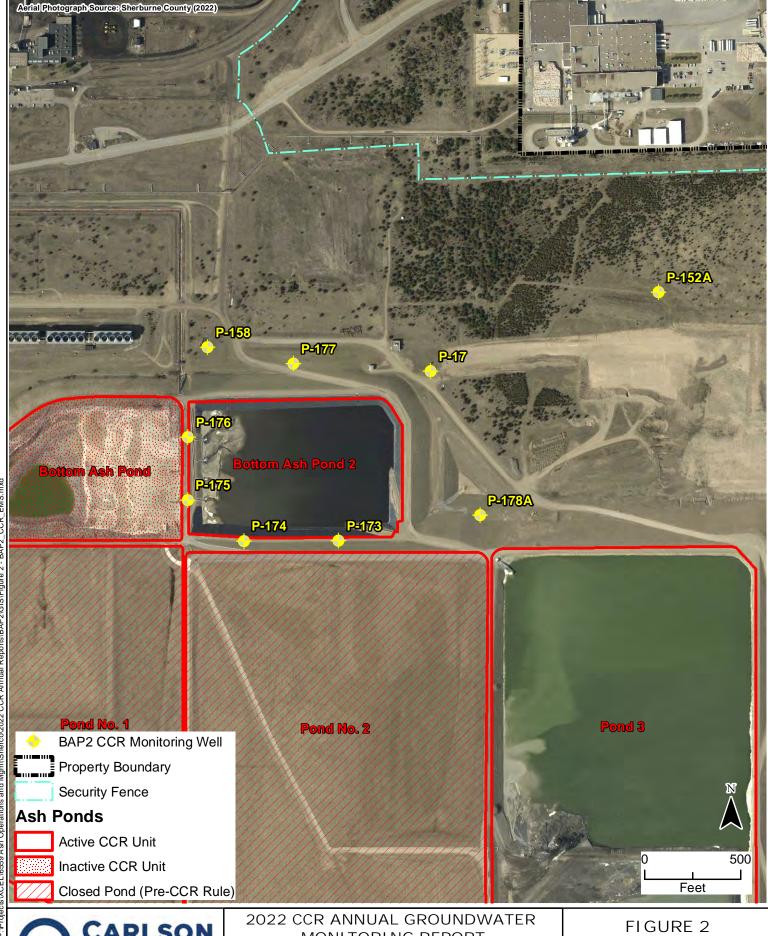
Two dashed lines = Not Analyzed

Downgradient Well

¹ Low groundwater levels prevented a sample from being collected from the well on the specified date.

Figures







2022 CCR ANNUAL GROUNDWATER

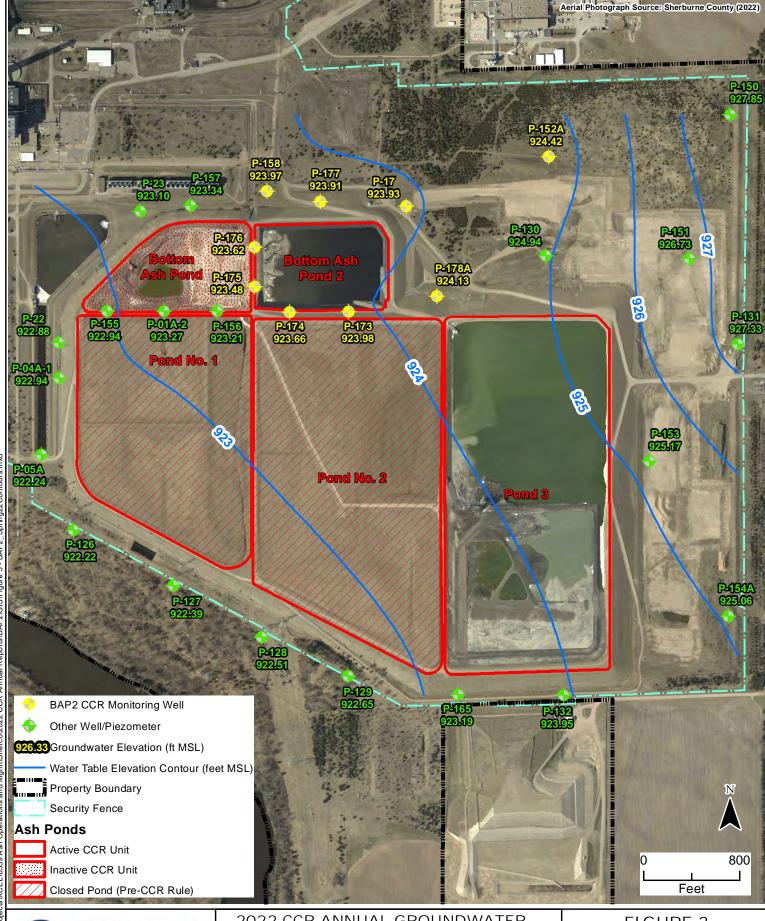
MONITORING REPORT

Bottom Ash Pond 2

Sherburne County Generating Plant

Becker, Minnesota

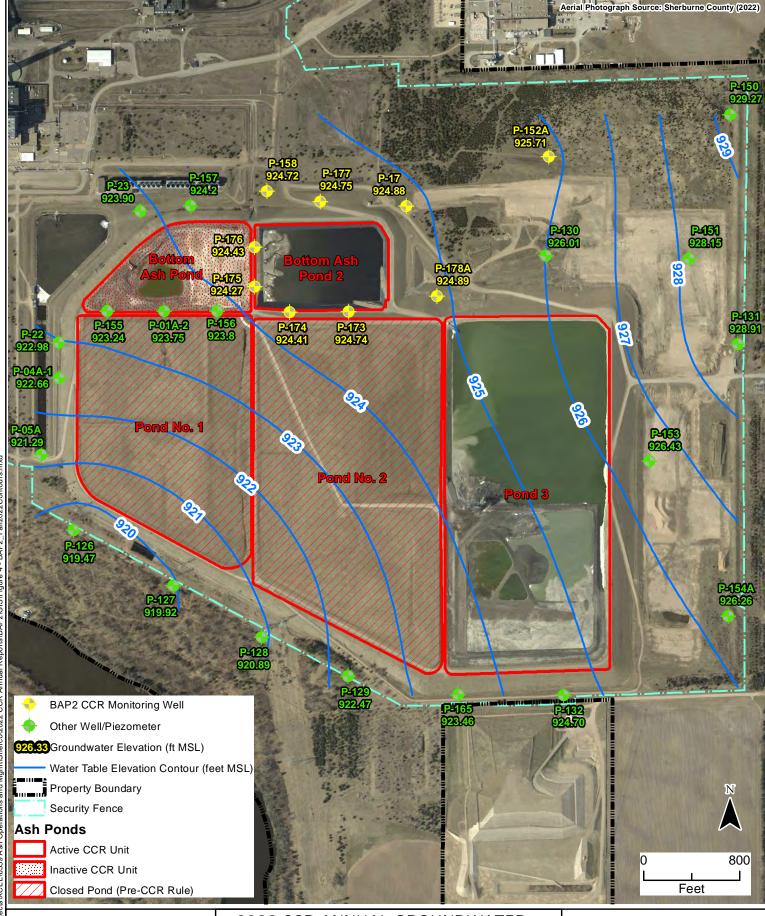
CCR GROUNDWATER
MONITORING SYSTEM





2022 CCR ANNUAL GROUNDWATER
MONITORING REPORT
Bottom Ash Pond 2
Sherburne County Generating Plant
Becker, Minnesota

FIGURE 3 WATER TABLE ELEVATION CONTOUR MAP (5/2-5/2022)





2022 CCR ANNUAL GROUNDWATER
MONITORING REPORT
Bottom Ash Pond 2
Sherburne County Generating Plant
Becker, Minnesota

FIGURE 4 WATER TABLE ELEVATION CONTOUR MAP (10/31-11/3/22)

Appendix A

Spring 2022 Detection Monitoring Event Field Datasheets and Laboratory Reports



		g Point ID_ Diameter	P-17- 2 (inches)	Vaud a.a.			7.10000	PI7
Put		Material:		Key# 2.10	Stainless St	Locke	a L	Not Locked
	Guant		epth Measurement				caeina)	
_			орит меазагентен	Top of Casin				Feet
					Well Depth			Feet
			er level measurement b					Feet = 5/2/2 z
	Sta	itic water le	vel measurement at tim					_Feet
Pu	rge Met	hod Polal	Static Water Lev	el Elevation Befo	ore Purging	Pump ID	BPC :	Feet -
D	ate Pur		The state of the s		Wat	er Column		
Ti	ime Pur	ged 12.3	0 - 1315	-0		ng Volume		Gallons
_ 0	Pump R	tate 0	ı	_GPM/LPM	Volu	me Purged	9	Gallons
	Date	Sampled	514122	Field F	arameter	Measure	ments o	f Sample
	Time	Sampled	1320	CONTRACT PH	7.6	(units)	D.C	9.0 (mg/l)
	Sampli	ing Equip.	Pump + Filter	Spec. Cond.	10-2-49	(jumhos/cm)	Turbidity	(UTV) GOLD
8		_	ACT OF A CONTRACT OF A CONTRAC	Temp. Observed		(°C)	E	154 (mV)
		alyzed by_		Temp. Corrected	-	(°C)	Othe	r_na
8			ements Temp. Correcte e Metals Filtered in Fiel	2000	Yes	☐ No	□ NA	
Wea	Sample		rature Correction Facto	43	Yes	□ No .	∐ NA	
Wea	ather Co	nditions Du	ring Sampling: 59°	Sunny	wind SE	4mph		
' Sa	mple De	escription: _	Clear, no od	wr				
	Obs	ervations: _	ANT					
5=								
т	ime	pH (units)	Specific Conductance	Temp (°C) (observed)	D.O.	Turbidity	Eh (mV)	
TI 120	-	pH (units)	Specific Conductance (µm/hos/cm)	Temp (°C) (observed)	D.O. (mg/l) 8.0	(NTU)	/ (mV)	Volume Purgeo (cumulative gal)
	45	(units)	(µmhos/cm)	(observed)	(mg/l)	(NTU)	/ (mV)	(cumulative gal)
121	45	(units)	(µmhos/cm)	(observed)	8.0 8.0	(NTU)	/ (mV)	(cumulative gal)
121	45	(units) 7 6 7 6	(unphos/cm) 450 450	(observed) (U.	8.0 8.0 8.0	O GO	/ (mv) 2154 154	(cumulative gal)
121	45	(units) 7 6 7 6	(unphos/cm) 450 450	(observed) (U.	8.0 8.0 8.0	O GO	/ (mv) 2154 154	3
121	45	(units) 7 6 7 6	(unphos/cm) 450 450	(observed) (U.	8.0 8.0 8.0	O GO	/ (mv) 2154 154	(cumulative gal)
13	45 100 115	(units) 7 6 7 6 7 6	(unphos/cm) 450 450 450	(observed) 10.1 10.1 10.2	8.0 8.0 8.0 8.0 8.0	O GO	/ (mv) 2154 154	(cumulative gal)
170 13	45 100 115	(units) 7.6 7.6	(unphos/cm) 450 450 450	(observed) (U. 1 U) 1 U 2	(mg/l) 8.0 8.0 8.0 8.0 shullr	O GO	/ (mv) 2154 154	(cumulative gal)



9	Monitoring Point ID_ Inside Diameter	- 72	(inches)	Key#	2104	0	Locked	beled 80	Not Locked
	Casing Material:	☑ PVC			ST - 1600	Stainless Ste	900	_	
ĺ	D	epth Meas	urement	and Ele	vations	(from to	p of well	casing)	
				Top of			NA		Feet
	Ctalla						42.35		Feet
ı	Static water le	er level mea							Feet
	Cidilo Water to		Water Lev			10 m			Feet
ä	Parge Method Dedice.		E				Pump ID		
	Date Porged					Wate	er Column		Feet
	Time Purged			_		One Casir	g Volume		Gallons
1	Pump Rate			_GPM/	LPM	Volun	ne Purged_		Gallons
	Date Sampled			F	ield Pa	rameter	Measure	ments of	Sample
	Time Sampled				pH	"	(units)	D.O	(mg/l)
i	Sampling Equip.	imp + Filte	1	Spec.	Cond.		μmhos/cm)	Turbidity	(NTU)
	Meter ID_		_	emp. Ob	somet.	12	(°C)	Eh	(m/v)
,	Analyzed by_		_	emp. Cor	rected	_	(°C)	Other	
	Field Measure	ments Lemn	Corrected	103					
	Sample for Soluble Tempe	e Metals Filte rature Correc	ered in Fiel ction Facto	d:	⊠ Y ⊠ Y _*C		□ No	NA NA	
	Sample for Soluble Tempe Weather Conditions Du	e Metals Filte rature Correc	ered in Fiel ction Facto	d:	arment.		=1		
	Sample for Soluble Tempe Weather Conditions Du Sample Description:	e Metals Filte rature Correc ring Samplin	ered in Fiel ction Facto g:	d: r:	. °C .	es es	□ Ma_	□ NA	
	Sample for Soluble Tempe Weather Conditions Du Sample Description:	e Metals Filte rature Correcting Samplin	ered in Field ction Facto	d: r:	. °C .	es	□ No	□ NA	mpt to Sound
	Sample for Soluble Tempe Weather Conditions Du Sample Description: Observations:	e Metals Filter rature Correct ring Samplin	ered in Field ction Factors:	d: r:	- Rense	es Led Braddi LS - Att	No Ma	ا NA	bmers, ble - N
	Sample for Soluble Tempe Weather Conditions Du Sample Description:	e Metals Filte rature Correcting Samplin	ered in Field ction Factors	d: r: S 3/s/2.z	. °C .	es 	□ No	□ NA	Volume Purged (cumulative gal)
	Sample for Soluble Tempe Weather Conditions Du Sample Description: Observations:	e Metals Filter rature Correct ring Samplin Top of Bu	ered in Field ction Factors	d: r: S 3/s/2.z	- Remo	es Led Braddi LS - Att	No No	I NA	Volume Purged
The state of the s	Sample for Soluble Tempe Weather Conditions Du Sample Description: Observations:	e Metals Filter rature Correct ring Samplin Top of Bu	ered in Field ction Factors	d: r: S 3/s/2.z	- Remo	es 	No No	I NA	Volume Purged
Emdune and	Sample for Soluble Tempe Weather Conditions Du Sample Description: Observations:	e Metals Filter rature Correct ring Samplin Top of Bu	ered in Field ction Factors	d: r: S 3/s/2.z	- Remo	es 	No No	I NA	Volume Purged
	Sample for Soluble Tempe Weather Conditions Du Sample Description: Observations:	e Metals Filter rature Correct ring Samplin Top of Bu	ered in Field ction Factors	d: r: S 3/s/2.z	- Remo	D.O. (mg/l)	No N	I NA	Volume Purged
	Sample for Soluble Tempe Weather Conditions Du Sample Description: Observations:	e Metals Filter rature Correct ring Samplin Top of Bu	ered in Field ction Factors	d: r: S 3/s/2.z	- Remo	es 	No N	I NA	Volume Purged
	Sample for Soluble Tempe Weather Conditions Du Sample Description: Observations:	e Metals Filter rature Correct ring Samplin Top of Bu	ered in Field ction Factors	d: r: S 3/s/2.z	- Remo	D.O. (mg/l)	No N	I NA	Volume Purged
	Sample for Soluble Tempe Weather Conditions Du Sample Description: Observations: Time pH (units)	e Metals Filterature Correcting Samplin Top of Bu 41.450+ Specific Cor (jumbos	ered in Field ction Factors	d: r: S 5/s/2.z Temp (obse	- Revesor	D.O. (mg/l)	No N	I NA	Volume Purged
Sa	Sample for Soluble Tempe Weather Conditions Du Sample Description: Observations: Time pH (units) oples chilled in modicity a	e Metals Filterature Correcting Samplin Top of Bu 41.450+ Specific Cor (jumbos	ered in Field ction Factors	d: r: S 3/s/2.z	- Remo	D.O. (mg/l)	No N	I NA	Volume Purged
58	Sample for Soluble Tempe Weather Conditions Du Sample Description: Observations: Time pH (units)	e Metals Filterature Correcting Samplin Top of Bu 41.450+ Specific Cor (jumbos	ered in Field ction Factors	d: r: S 5/s/2.z Temp (obse	- Revesor	D.O. (mg/l)	No N	I NA	Volume Purged



	Monitoring Point Inside Diamet		2	(inches)	Key # 2	nole	∠ Locked		Not Locked
	Casing Materi	al:	☐ PVC		teel	Stainless S		_	
	he - sales	De	epth Measu	rement :	and Eleva	itions (from t	op of well c	asing)	Francisco de la companya della companya della companya de la companya de la companya della compa
Ī					Top of C	asing Elevation	NA NA		Feet
ł						otal Well Depth			Feet
ı					N. 48 S.	g (Start Depth			Feet x 5/2/2 2
ğ	Static water	er lev				g (Final Depth)		8	Feet
	Purge Method	less.				Before Purging	Pump ID	BPCZ	Feet
į	Date Purged			remp	3	Wa	ter Column	14.59	No.
1	Time Purged 1	-			-		ing Volume	1.0	1 Gallons
1	Pump Rate	0.	2	/	GPW/LP	M Volu	me Purged	3.6	Gallons
i	Date Sample	ad 6	Slilaz		Fie	ld Paramete	r Mageuran	ante of	Sample
8	Time Sample				1 16	pH 7-3	(units)		0.0
ı	Sampling Equ	_	-	-	Snec C	ond. 840	 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		0 · US (NTU)
		W. C.	MP-3C9N	-		ved 10.5	(°C)		15 ¹⁴ (mV)
1	Analyzed					cted 10.5	(°C)		NA
	Field Mea	surer	ments Temp.	Corrected		⊠ Yes	□ No	□ NA	
and the second	Field Mea Sample for So Tel Weather Conditions ' Sample Description	surer luble mper s Dur	ments Temp. Metals Filter ature Correct ring Sampling	Corrected ed in Field ion Factor 5 4°	70	⊠ Yes ⊠ Yes °C	□ No □ No		
No. of the last of	Field Mea Sample for So Tel Weather Conditions ' Sample Description Observation	surer luble mper s Dur	ments Temp. Metals Filter rature Correct ring Sampling CLEAR, No.	Corrected ed in Field ion Factor 5 4° o OADC	: :_ 7) Sunny:	Yes Yes C wint	□ No □ No □ Mo	□ NA □ NA	
The state of the s	Field Mea Sample for So Ter Weather Conditions Sample Description Observation Time pH (units)	surer luble mper s Dur on: ns:	ments Temp. Metals Filter ature Correct ring Sampling	Corrected ed in Field ion Factor 54° o ADF	70	Yes Yes C und	No No No Hamph	□ NA	
The state of the s	Field Mea Sample for So Ter Weather Conditions 'Sample Description Observation	surer luble mper s Dur on: ns:	ments Temp. Metals Filter rature Correct ring Sampling Clear No	Corrected ed in Field ion Factor 54° o ADF	Sunny,	Yes Yes C UIN C D.O. d) (mg/l)	□ No □ No □ No □ Turbidity (NTU)	□ NA □ NA	Volume Purged
CONTROL OF THE PARTY OF THE PAR	Field Mea Sample for So Tel Weather Conditions Sample Description Observation Time pH (units)	surer luble mper s Dur on: ns:	ments Temp. Metals Filter rature Correct ring Sampling CLEAT, No.	Corrected ed in Field ion Factor 54° o ADF	Sunhy, Temp (* (observe	Yes Yes C VINT C D.O. (mg/l)	No No No Turbidity (NTU)	□ NA □ NA □ NA	Volume Purged (cumulative gal)
	Field Mea Sample for So Tel Weather Conditions 'Sample Description Observation Time pH (units)	surer luble mper s Dur on: 	ments Temp. Metals Filter rature Correct ring Sampling CLEAT No.	Corrected ed in Field ion Factor 54° o ADF	Temp (* (observe	Yes Yes C Und C D.O. (mg/l) g 9	□ No □ No □ No □ Turbidity (NTU)	□ NA □ NA □ NA	Volume Purged (cumulative gal)
	Field Mea Sample for So Ter Weather Conditions Sample Description Observation Time pH (units) 1132 7.3	surer luble mper s Dur on: 	Specific Conceptions of the Specific Conception Conceptions of the Specific Conception Con	Corrected ed in Field ion Factor 54° o ADF	Temp (* (observe	Yes X Yes C Yes C D.O. G (mg/l) g 9 B 9 g 1	Turbidity (NTU) 0.28	Eh (mV)	Volume Purged (cumulative gal)
	Field Mea Sample for So Ter Weather Conditions Sample Description Observation Time pH (units) 1132 7.3	surer luble mper s Dur on: 	Specific Conceptions of the Specific Conception Conceptions of the Specific Conception Con	Corrected ed in Field ion Factor 54° o ADF	Temp (* (observe	Yes Yes Yes C D.O. (mg/l) 8.9 9.4	Turbidity (NTU) 0.28	Eh (mV)	Volume Purged (cumulative gal)
	Field Mea Sample for So Ter Weather Conditions Sample Description Observation Time pH (units) 1132 7.3	surer luble mper s Dur on: 	Specific Conceptions of the Specific Conception Conceptions of the Specific Conception Con	Corrected ed in Field ion Factor 54° o ADF	Temp (* (observe	Yes Yes Yes C D.O. (mg/l) 8.9 9.4	Turbidity (NTU) O.28 O.28	Eh (mV)	Volume Purged (cumulative gal)
	Field Mea Sample for So Tel Weather Conditions Sample Description Observation Time pH (units) 1132 7.3	surer lluble mper s Dur on:	Specific Concumbos/ 850 840	Corrected ed in Field ion Factor 54° co ADC	Temp (* (observe 10.5	Yes Yes Yes C D.O. (mg/l) 8.9 8.9 8.9 5/14	Turbidity (NTU) O.28 O.28	Eh (mV)	Volume Purgeo (cumulative gal)
	Field Mea Sample for So Ter Weather Conditions Sample Description Observation Time pH (units) 1132 7.3	surer lluble mper s Dur on:	Specific Conc. (umhos/ 840)	Corrected ed in Field ion Factor 54° co ADC	Temp (* (observe	Yes Yes Yes C D.O. (mg/l) 8.9 9.4	Turbidity (NTU) O.28 O.28	Eh (mV)	Volume Purged (cumulative gal)



ressampling information	Monitoring Point		V21-1-1-1-1	Normal Control	Constanting Consta	Treature treatment and		84470	7	
Ĭ	Inside Diamet	777	(inches)	Key#_	220000000000000000000000000000000000000	Locke	d	☐ Not Lo	cked	
î	Casing Materi	-		iteel	Stainless	A466.05				
	Depth Measurement and Elevations (from top of well casing) Top of Casing Elevation AA Feet									
								Feet		
	Static	water lavel mor	acurement b		Total Well Dept ing (Start Depti			Feet		
					ling (Start Depti		-	Feet		
The second secon	22,000,000,000				n Before Purgin			Feet		
ì	Purge Method Da	Siccial Broth	limp	_	and the second second second	Pump ID	BRC	-1		
1	Date Purged S	The second second second		-0.0		ater Column			eet	
	Time Purged		40	(A)		sing Volume			Sallons	
J	Pump Rate 0	4		(GPM/L	.PM Vo	lume Purged	3		Sallons	
1	Date Sample	d 5/3/22		Fi	ield Paramet	er Measure	ments	of Samp	le	
	Time Sample	-			pH 7. 3	(units)	[0.0 7.6	(mg/l)	
1	27 4 5 THE	o. Pump + Fist			Cond. 550	(µmhos/cm)	Turbi	dity 1 . 7	(NTU)	
	Motor	D 14405 B	T	emp. Obse	erved 8.8	(°C)		Eh 184	(mV)	
	Meter ID M 65 8 Temp. Observed 3.3 (°C) Eh 184 (mV)									
	Analyzed I	-		emp. Corre	ected 8 4	_(°C)		her NA		
	Field Meas Sample for Sol Ter Weather Conditions ' Sample Description	urements Tem uble Metals Filt inperature Corre During Sampli in: CLEAV, v	p. Corrected for Field action Factor	emp. Com	Yes Yes C TED HERE	_(°C) ☐ No ☐ No		her NA		
	Field Meas Sample for Sol Ter Weather Conditions ' Sample Description	urements Tem uble Metals Filt inperature Corre During Sampli in: CLEAV, v	p. Corrected for Field action Factor	emp. Com	ected & 4 Yes XYes CO	_(°C) ☐ No ☐ No		her NA		
	Field Mease Sample for Son Ten Weather Conditions Observation Time PH (units)	by W.M. surements Tem uble Metals Filt superature Corre During Sampli s: CLEDV, v s: CDPLIC F A RINSE B Specific Co (jumbs)	p. Corrected for Field action Factor	t: t: t: t: t: t: t: t: t: t:	Yes Yes C V Yes C V C C C C C C C C C C C C C C C C C	_(°C)		her NA	ne Purged	
	Field Measure Sample for Solutions Sample for Solutions Weather Conditions Sample Description Observation Time pH (units) 0930 7.3	urements Tem uble Metals Filt inperature Corre During Sampli in: CLEAV , v s: DUPLIC F * RINS E B Specific Co (umbo	p. Corrected in Field action Factor ing: Clauding: Clauding: Clauding: Charles APZ Counductance	t: + 0 coccoct Temp	ected ₹ 4 Yes Yes C TED HERE (ICRE ((°C) D.O. (red) (mg/l) 7. 4	No No No Turbidity	Eh (mV)	Volum	ne Purged	
	Field Measure Sample for Solution Sample Description Observation Time pH (units) 0930 7.3	Specific Co.	p. Corrected in Field action Factor ing: Clauding: Clauding: Clauding: Charles APZ Counductance	coccoct (cobsen)	ected ₹ 4 Yes Yes C TED HERE (IÈRE ((°C) D.O. (mg/l) 7. 4 7. 5	(°C) No No Turbidity (NTU)	Eh (mV)	Volum	ne Purged	
	Field Measure Sample for Solutions Sample for Solutions Weather Conditions Sample Description Observation Time pH (units) 0930 7.3	Specific Co (umbor 5 40)	p. Corrected in Field action Factor ing: Clauding: Clauding: Clauding: Charles APZ Counductance	COLLOCATED F	ected ₹ 4 Yes Yes C TED HERE (IÈRE ((°C) D.O. (mg/l) 7. 4 7. 5	(°C) No No No Turbidity (NTU)	Eh (mV)	Volum	me Purged ulative gal)	
	Field Measure Sample for Solution Sample Description Observation Time pH (units) 0930 7.3	Specific Co.	p. Corrected in Field action Factor ing: Clauding: Clauding: Clauding: Charles APZ Counductance	coccoct (cobsen)	Yes Yes Yes C O TED MERE ("C) ("C) ("C) (mg/l) 7.4 7.5	Turbidity (NTU)	Eh (mV)	Volum	ne Purged ulative gal) 2.	
	Field Measure Sample for Solution Sample Description Observation Time pH (units) 0930 7.3	Specific Co.	p. Corrected in Field action Factor ing: Clauding: Clauding: Clauding: Charles APZ Counductance	coccoct (cobsen)	Yes Yes Yes C TED HERE (C) (C) (C) (C) (May) 7.4 7.5	Turbidity (NTU)	Eh (mV)	Volum	ne Purged ulative gal) 2.	
	Field Measure Sample for Solution Sample Description Observation Time pH (units) 0930 7.3	Specific Co.	p. Corrected in Field action Factor ing: Clauding: Clauding: Clauding: Charles APZ Counductance	coccoct (cobsen)	Yes Yes Yes C O TED MERE ("C) ("C) ("C) (mg/l) 7.4 7.5	Turbidity (NTU)	Eh (mV)	Volum	ne Purged ulative gal) 2.	
	Field Measure Sample for Solution Sample Description Observation Time pH (units) 0930 7.3	Specific Consumble Services Specific Consumb	p. Corrected for Field for Charles (Charles of Charles	Temp (obsen	ected § 9 Yes Yes C Yes C C C C C C C C C C C C C	Turbidity (NTU)	Eh (mV)	Volum	ne Purged ulative gal) 2.	
	Field Mean Sample for Solutions Sample Description Observation Time pH (units) 0930 7.3 0940 7.3	Specific Consumble Services Specific Consumb	p. Corrected for Field for Charles (Charles of Charles	coccoct (cobsen)	Yes Yes Yes C TED HERE (C) (C) (C) (C) (May) 7.4 7.5	Turbidity (NTU)	Eh (mV)	Volum	ne Purged ulative gal) 2.	
	Field Meas Sample for Sol Ter Weather Conditions Sample Description Observation Time pH (units) 0930 7.3 0940 7.3	Specific Co (umbor 5 40) Sy William Collection	p. Corrected for Field for Charles (Charles of Charles	Temp (obsen 8 8 8 8	ected § 9 Yes Yes C Yes C C C C C C C C C C C C C	Turbidity (NTU)	Eh (mV)	Volum	ne Purged ulative gal) 2.	



	Monitorin	30 5	2		V #	2.27	150		beled 52	
		Diameter _	10000000	(inches)	Key#_		Statistics of the second	Locke	d L	Not Locked
H	Gasin	g Material:	☑ PVC		teel		Stainless S	7,270	and and	
H		U	epth Meas	urement						Foot
ł					1 op or	Section 14 To	Elevation Vell Depth			_Feet Feet
ı		Static wat	er level meas	urement b	efore pur					Feet + 5/z/zz
ı	St		vel measuren							Feet
J			Static \	Water Leve	el Elevatio	on Befor	re Purging	NA	-	Feet
ı		200	wheel Build	as Puno				Pump ID		
ı		rged 5/3			_			ter Column	5.26	
ı	Pump f	rged 1020	2-1035		SPM/I	DIA		ing Volume	0.06	Gallons
L	Pump r	raie U	L		_GPM)/ I	LPM	Volu	me Purged	<u></u>	Gallons
	Date	e Sampled	513102		F	ield P	aramete	r Measure	ments of	Sample
ı	Time	Sampled_	1040	- "		pH	7.5	(units)	D.O	80 (mg/l)
ı	Sampl	Carlotte Manager	ump + Filte	The state of the s			550	(µmhos/cm)	Turbidity	(UTU)_(NTU)
		Meter ID	RPC+ MC	18 47Mb T	emp. Obs	served	9.3	(°C)	EH	(MV)
Meter ID RPC+ W/CS +TW6 Temp. Observed 9.3 (°C) Eh 171 (mV										
	Fi	nalyzed by_ eld Measure		Corrected		×	Yes Yes	No No	Other	<u>_ nu</u>
	Fi Sampl Weather Co Sample D	eld Measure le for Soluble Tempe onditions Du escription: (M/W ements Temp.	Corrected red in Field tion Factor g: 450	1: 1: 1: Pourt1	,c X	Yes Yes	□ No □ No	□ NA □ NA	
	Fi Sampl Weather Co Sample D	eld Measure le for Soluble Tempe onditions Du escription: (servations:	ements Temp. e Metals Filter rature Correct uring Sampling Could - Ru	Corrected red in Field tion Factor g: 450 odu/	t: f: f: ro Purti	[2] [2] [3]	Yes Yes	No No	□ NA □ NA □ NA Eh	Volume Purgeo
	Fi Sample Weather Co Sample D Obs	eld Measure le for Soluble Tempe onditions Du escription: (servations:	Ements Temp. e Metals Filter rature Correct ring Sampling CARL - Ru Specifc Con (jumbos	Corrected red in Field tion Factor g: 450 odu/	1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1	Ned)	Yes Yes	No No No Turbidity (NTU)	□ NA □ NA	Volume Purgeo (cumulative gal)
	Fi Sampl Weather Co Sample D Obs	eld Measure le for Soluble Tempe onditions Du escription: (servations:	Ements Temp. e Metals Filter rature Correct uring Sampling Claux, you Could - Ru Specific Con (umhos	Corrected red in Field tion Factor g: 450 odu/	t: Purt) Temp (obser	C (°C) (°C)	Yes Yes Outly 1 v	No No Vind - N	NA NA	Volume Purgeo (cumulative gal)
	Fine	eld Measure le for Soluble Tempe onditions Du escription: (servations:	Ements Temp. e Metals Filter rature Correct ring Sampling CARL - Ru Specifc Con (jumbos	Corrected red in Field tion Factor g: 450 odu/	Temp	(°C) (ved)	Yes Yes	No No No Turbidity (NTU)	Eh (mV)	Volume Purgeo (cumulative gal)
	Fine	eld Measure le for Soluble Tempe onditions Du escription: (servations:	Specific Con (jumhos) 5 5 0	Corrected red in Field tion Factor g: 450 odu/	Temp (obser 9.4	(°C) (ved)	P.O. (mg/t)	No No No Turbidity (NTU)	Eh (mV)	Volume Purgeo (cumulative gal)
	Fine	eld Measure le for Soluble Tempe onditions Du escription: (servations:	Specific Con (jumhos) 5 5 0	Corrected red in Field tion Factor g: 450 odu/	Temp (obser 9.4	(°C) (ved)	D.O. (mg/l)	No No No Turbidity (NTU)	Eh (mV)	Volume Purgeo (cumulative gal)
	Fine	eld Measure le for Soluble Tempe onditions Du escription: (servations:	Specific Con (jumhos) 5 5 0	Corrected red in Field tion Factor g: 450 odu/	Temp (obser 9.4	(°C) (ved)	D.O. (mg/l)	No No No Turbidity (NTU)	Eh (mV)	Volume Purgeo (cumulative gal)
	Fine No 30	eld Measure le for Soluble Tempe onditions Du escription: (servations:	Specific Con (umhos 5 40	Corrected red in Field tion Factor g: 450, odu/C	Temp (obser 9.4	o (°C) rved)	D.O. (mg/t)	No No No Turbidity (NTU)	Eh (mV)	Volume Purgeo (cumulative gal)
alli	Fine Sample D Obs Time 10.25 10.30 10.35	pH (units)	Specific Con (jumhos) 5 5 0	Corrected red in Field tion Factor g: 450, odu/C	Temp (obser 9.4	(°C) (ved)	D.O. (mg/t)	No No No Turbidity (NTU)	Eh (mV)	Volume Purgeo (cumulative gal)
alm	Fine No 30	pH (units)	Specific Con (umhos 5 40	Corrected red in Field tion Factor g: 450 odu/C	Temp (obser Q. 4	o (°C) rved)	D.O. (mg/l) S. 2 g. 0 shurz z	No No No Turbidity (NTU)	Eh (mV)	Volume Purgeo (cumulative gal)



-	Inside	Diameter	2	(inches)	Key#	2104		⊠ Lock	ed		Not Locke	d
	Casin	g Material:	☑ PVC	□ St	teel		Stainless S			_		
Ì	The Call of	D	epth Meas	urement a	and Elev	ations	(from to	op of we	II casin	g)		
ļ					Top of	Casing	Elevation		/A	F	Feet	
Ì		1924/1200					ell Depth				Feet	V
I			er level meas						-44	_	eet + s	12/2
١	50	atic water lev	vel measuren						44		eet	
۱	Purge Met	thod To At	Jed Budde	Vater Leve	i Elevation	n Beron	e Purging		0 6PC		eet	
		ged 5/3/2		less de	-3		Wat	ter Colum			Fee	t
l		ged) \\ 0 -						ing Volum	-		Gal	
	Pump F	Rate 0	2		GPM/ L			me Purge		_	_	
Ī	Date	Sampled	513122		Fi	eld Pa	rameter	Measur	ements	s of S	Sample	
ı	Time	Sampled		-			1.6	(units)		D.O		(mg/l)
ı	Sampl	ing Equip.	imp + Filte	6	Spec. C			(umhos/cm)		_		(NTU)
ш	- Currip			100								0.77
ı	Sampling Equip. Know + Filter Spec. Cond. 4 (1) (simhos/cm) Turbidity 5, 2 (NTU) Meter ID MPS - 8 Temp. Observed 10.5 (°C) Eh (°TO) (mV)											
	Ar Fi	nalyzed by eld Measure		Te	emp. Corre	_	w. 5	(°C) (°C) No		ther_ NA		-(mV)
	Ar Sampl Weather Co	eld Measure e for Soluble Temper onditions Du	Metals Filter rature Correcting Sampling	Corrected: ed in Field tion Factor:	emp. Corre	ected _	es es	(°C) No No	. 0	ther_ NA		(mV)
	Ar Sampl Weather Co Sample Do Obs	eld Measure e for Soluble Temper onditions Du escription: C ervations:	Y-(M) ments Temp. Metals Filter rature Correct ring Sampling Neωr, No	Corrected: ed in Field tion Factor: Sunny	+ 0	ected	es es VE	(°C) No No		NA NA	MA .	
	Ar Sampl Weather Co Sample Do Obs	eld Measure e for Soluble Temper onditions Du escription: C ervations: _c	Y-CMA ments Temp. Metals Filter rature Correct ring Sampling VA Specifc Cont (jumhos)	Corrected: ed in Field tion Factor: Sunny Odur	Temp (ected	es es (N)	(°C) No No		NA NA	Volume (cumula	Purgeo
	Ar File Sample Weather Co Obs	eld Measurer onditions Durescription: pH (units)	Y-CM ments Temp. Metals Filter rature Correct ring Sampling Neωr, No	Corrected: ed in Field tion Factor: Sunny Odur	+ 0 - 50	ected	es es NÉ	Turbidity (NTU)	Eh (mv	NA NA	Volume	Purgeo
	Ar Fin Sample Weather Co Obs	eld Measure e for Soluble Temper onditions Du escription: C ervations: _c	Y-CMA ments Temp. Metals Filter rature Correct ring Sampling VA Specifc Cont (jumhos)	Corrected: ed in Field tion Factor: Sunny Odur	Temp (ected	D.O. (mg/l)	Turbidity (NTU)	Eh (mv : 172	NA NA	Volume (cumula	Purgeo tive gal)
	Ar File Sample Weather Co Obs	eld Measurer onditions Durescription: pH (units)	Metals Filter rature Correcting Sampling New No.	Corrected: ed in Field tion Factor: Sunny Odur	Temp ((observe	ected Y	es es NE	Turbidity (NTU)	Eh J (mv	NA NA	Volume (cumula	Purgec tive gal)
	Ar Fin Sample Weather Co Obs	eld Measure e for Soluble Temper conditions Dure escription: Cervations: Cerva	Metals Filter rature Correct ring Sampling Clear, No VA Specifc Con- (jumhos)	Corrected: ed in Field tion Factor: Sunny Odur	Temp (observ	ected Y	D.O. (mg/l) 9.4	Turbidity (NTU)	Eh (mv : 172	NA NA	Volume (cumula	Purgec tive gal)
	Ar Fin Sample Weather Co Obs	eld Measure e for Soluble Temper conditions Dure escription: Cervations: Cerva	Metals Filter rature Correct ring Sampling Clear, No VA Specifc Con- (jumhos)	Corrected: ed in Field tion Factor: Sunny Odur	Temp (observ	ected Y	D.O. (mg/l)	Turbidity (NTU)	Eh (mv : 172	NA NA	Volume (cumula	Purgeo tive gal)
	Ar Fin Sample Weather Co Obs	eld Measure e for Soluble Temper conditions Dure escription: Cervations: Cerva	Metals Filter rature Correct ring Sampling Clear, No VA Specifc Con- (jumhos)	Corrected: ed in Field tion Factor: Sunny Odur	Temp (observ	ected Y	D.O. (mg/l) 9.4	Turbidity (NTU)	Eh (mv : 172	NA NA	Volume (cumula	Purgeo tive gal)
	Ar Fire Sample Do Obs	eld Measure e for Soluble Temper conditions Dure escription: Cervations: Cerva	Metals Filter rature Correct ring Sampling Pleur, No VA Specific Cone (jumhos) 410 410	Corrected: ed in Field tion Factor: Surviva Odur	Temp ((observ	ected [X Y Y °C VICA)	D.O. (mg/l) 9.4	Turbidity (NTU)	Eh (mv : 172	NA NA	Volume (cumula	Purgec tive gal)
	Ar Fire Sample Do Obs	eld Measure e for Soluble Temper anditions Dure escription: C ervations:	Metals Filter rature Correct ring Sampling Pleur, No VA Specific Cone (jumhos) 410 410	Corrected: ed in Field tion Factor: Sunny Odur	Temp (observ	ected Y	D.O. (mg/l) 9.4	Turbidity (NTU)	Eh (mv : 172	NA NA	Volume (cumula	Purgeo tive gal)



Ē	Monitoring Point ID	P-176				Lal	beled	844703			
nonsunous faulduness com mondinoss usua	Inside Diameter	2	(inches)	Key# 210	le	Locked		Not Locked			
,	Casing Material	☑ PVC	☐ Ste	eel [Stainless S	iteel					
	best a second	Depth Meas	urement a	nd Elevatio	ns (from t	op of well	casing)				
1				Top of Casi	ng Elevation	NA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Feet			
1	-2000000				Well Depth			Feet			
١		ater level meas						_Feet × 5/z/z z			
i	Static water	level measuren		of sampling (i Elevation Bet			2	_Feet			
١	Purge Method Ped:			clevation be	fore Purging	Pump ID	BPC	Feet 1_			
I		312 5/4/2	2.2	-5	Wa	ter Column	5.15	Feet			
١	Time Purged 44	71625				ing Volume	0.84	Gallons			
i	Pump RateC	1.1		GPN / LPM		me Purged_	3	Gallons			
Ī	Date Sampled	5/4/2		Field	Paramete	r Measurer	nents o	f Sample			
I	Time Sampled			pl		(units)	D.C	The state of the s			
ı	Sampling Equip.		-	Spec. Cond		(umhos/cm)	Turbidity	Committee of the contract of t			
ı		100 mg 2 mg	_	33.5	-			12/1			
		Meter ID NASS+TWb Analyzed by KCM				12.0					
Orthodox of the	0000	rements Temp.	Corrected:		Yes	(°C) No	Othe	r_Nq			
O. C.	Field Measu Sample for Solu	rements Temp. ble Metals Filter perature Correct During Sampling	Corrected: red in Field: tion Factor: g: 63,5	0 °C	Yes Yes	□ No □ No	□ NA □ NA	r_Nq			
out of the second	Field Measu Sample for Solu Temp Weather Conditions I Sample Description: Observations:	rements Temp. ble Metals Filter berature Correc During Sampling	Corrected: red in Field: tion Factor: g: <u>(ゅう</u> すぐ	O °C	Yes Yes	□ No □ No E Ø Simp	□ NA □ NA				
	Field Measu Sample for Solu Temp Weather Conditions I Sample Description:	rements Temp. ble Metals Filter perature Correct During Sampling	Corrected: red in Field: tion Factor: g: _(e,3 , <	0 °C	Yes Yes Wind SE	□ No □ No □ No Turbidity	□ NA □ NA	Volume Purgeo			
	Field Measu Sample for Solu Temp Weather Conditions I Sample Description: Observations:	rements Temp. ble Metals Filter berature Correc During Sampling Old Correct A	Corrected: red in Field: tion Factor: g: _(e,3 , <	O °C	Yes Yes Wind St	No No No Turbidity (NTU)	□ NA □ NA h	Volume Purged			
	Field Measu Sample for Solut Temp Weather Conditions I Sample Description: Observations: Time pH (units)	rements Temp. ble Metals Filter perature Correct puring Sampling CROCTOR Specific Con- (umhos	Corrected: red in Field: tion Factor: g: _(e,3 , <	Temp (°C) (observed)	Yes Yes U.n.d. SE D.O. (mg/l)	□ No □ No □ No Turbidity	□ NA □ NA h	Volume Purgeo			
	Field Measu Sample for Solu Temp Weather Conditions I Sample Description: Observations: Time pH (units) 1 630 7.4	rements Temp. ble Metals Filter berature Correc During Sampling ORD () Specific Con- (jumhos)	Corrected: red in Field: tion Factor: g: _(e,3 , <	Temp (°C) (observed)	Ves Yes Und SE Und SE	No No No Turbidity (NTU)	□ NA □ NA h	Volume Purged (cumulative gal)			
	Field Measu Sample for Solut Temp Weather Conditions I Sample Description: Observations: Time pH (units) 1 630 7.4	rements Temp. ble Metals Filter berature Correc During Sampling ORO (10	Corrected: red in Field: tion Factor: g: _(e,3 , <	Temp (°C) (observed)	D.O. (mg/l) \$ 7	Turbidity (NTU)	□ NA □ NA h Eh (mV)	Volume Purged (cumulative gal)			
	Field Measu Sample for Solut Temp Weather Conditions I Sample Description: Observations: Time pH (units) 1 630 7.4	rements Temp. ble Metals Filter berature Correc During Sampling ORO (10	Corrected: red in Field: tion Factor: g: _(e,3 , <	Temp (°C) (observed)	1 Yes 1 Yes	Turbidity (NTU)	□ NA □ NA h Eh (mV)	Volume Purged (cumulative gal)			
	Field Measu Sample for Solut Temp Weather Conditions I Sample Description: Observations: Time pH (units) 1 630 7.4	rements Temp. ble Metals Filter berature Correc During Sampling ORO (10	Corrected: red in Field: tion Factor: g: _(e,3 , <	Temp (°C) (observed)	Yes Yes Yes W.n.d. S.E	Turbidity (NTU)	□ NA □ NA h Eh (mV)	Volume Purged (cumulative gal) (
ia ia	Field Measu Sample for Solut Temp Weather Conditions I Sample Description: Observations: Time pH (units) 1 630 7.4	Specific Con- (umhos)	Corrected: red in Field: tion Factor: g: _(e 3 , 1	Temp (°C) (observed)	D.O. (mg/l) 8 7 8 7 8 7	Turbidity (NTU)	□ NA □ NA h Eh (mV)	Volume Purged (cumulative gal) (
	Field Measu Sample for Solut Temp Weather Conditions D' Sample Description: Observations: Time pH (units) 1630 7.4 1640 7.4	Specific Con- (umhos-	Corrected: red in Field: tion Factor: g: _(e 3 , c	Temp (°C) (observed) 11.0 10.4	Yes Yes Yes W.n.d. S.E	Turbidity (NTU)	□ NA □ NA h Eh (mV)	Volume Purged (cumulative gal) (
	Field Measu Sample for Solut Temp Weather Conditions I Sample Description: Observations: Time pH (units) 1630 7.4 1640 7.4	Specific Con- (umhos)	Corrected: red in Field: tion Factor: g: _(e 3 , c	Temp (°C) (observed)	D.O. (mg/l) 8 7 8 7 8 7	Turbidity (NTU)	□ NA □ NA h Eh (mV)	Volume Purge (cumulative gat) 1			



E	Monitoring Point			111		Labeled	1 844704	
Well Description and Presampling Information	Inside Diamet		(inches)	Key#		Locked	☐ Not Locked	
Ĩ	Casing Materi			teel	Stainless S			
ı		Depth Me	easurement			top of well casi		
į						NA 1 46 53	Feet	
	Static	water level m	neasurement be		al Well Depth (Start Depth)		Feet	
	Static water	r level measi	urement at time	e of sampling	(Final Depth)	42.35	Feet v 5/2/2 z	
l	reacona analy areas	Sta	atic Water Leve	el Elevation B			Feet	
a de la composição de l	Purge Method Da		edder horf	_		Pump ID BP	162	
	Date Purged 5		0	_		ster Column 4.1		
		105-171	1	(an)		ing Volume O - (
ú	rump Rate			GPM/LPM	Volu	ime Purged 7.1	Gallons	
Ī	Date Sample	05/4/22		Field	Paramete	r Measurement	ts of Sample	
	Time Sample				H 7.3	(units)	D.O 7.9 (mg/l)	
J	Sampling Equi		-	Spec. Con	Printer and the second	(umhos/cm) Turl	bidity 0.62 (NTU)	
1	Meter I	D MPS &	FTM6 TO	emp. Observe	d 10-6	(°C)	Eh 157 (mV)	
ч.	Meter ID MPS FTM6 Temp. Observed 10-6 (°C) Eh 57 (mV)							
THE PARTY OF THE P	Analyzed I Field Meas Sample for Sol	urements Te	mp. Corrected		ed <u>lo.lo</u> ☑ Yes ☑ Yes	(°C) (NA NA	
	Analyzed I Field Meas Sample for Sol	urements Te uble Metals F operature Co During Samp Cheer	mp. Corrected. Filtered in Field rrection Factor: pling: 57°	0 %	Yes Yes	□ No □	NA	
TOTAL PROPERTY OF THE PARTY OF	Analyzed I Field Meas Sample for Sol Ten Weather Conditions ' Sample Description Observation	urements Te uble Metals F perature Co During Samp Chear	mp. Corrected. Filtered in Field rrection Factor: pling: 57°	0 %	Yes Yes	No	NA NA	
CONTRACTOR OF THE PARTY OF THE	Analyzed I Field Meas Sample for Sol Ten Weather Conditions ' Sample Description Observation Time pH (units)	urements Te uble Metals Fraperature Co During Sample: Cheur	mp. Corrected. Filtered in Field. rrection Factor. pling: 57°	Temp (°C) (observed)	Yes Yes D.O. (mg/l)	No No No No No No No No	NA NA Volume Purged (cumulative gal)	
CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE	Analyzed I Field Meas Sample for Sol Ten Weather Conditions Sample Description Observation Time pH (units) 1204 7.3	urements Te uble Metals Fraperature Co During Sample: Cheur Specific Gum	mp. Corrected. Filtered in Field rection Factor. pling: 57°, pling: 600.	Temp (°C) (observed)	Yes Yes D.O. (mg/l)	Turbidity EI (NTU) (m)	NA NA Volume Purged (cumulative gal)	
CONTRACTOR OF THE PARTY OF THE	Analyzed I Field Meas Sample for Sol Ten Weather Conditions Sample Description Observation Time pH (units) 1201 7.3	urements Te uble Metals For perature Con During Sample:	mp. Corrected. Filtered in Field rection Factor. pling: 57°, pling: 600.	Temp (°C) (observed)	P.O. (mg/l)	Turbidity El (NTU) (m)	NA NA Volume Purged (cumulative gal) Z () - 8 2 () - (e	
	Analyzed I Field Meas Sample for Sol Ten Weather Conditions Sample Description Observation Time pH (units) 1204 7.3	urements Te uble Metals Fraperature Co During Sample: Cheur Specific Gum	mp. Corrected. Filtered in Field rection Factor. pling: 57°, pling: 600.	Temp (°C) (observed)	Yes Yes D.O. (mg/l)	Turbidity EI (NTU) (m)	NA NA Volume Purged (cumulative gal) C 0 8	
	Analyzed I Field Meas Sample for Sol Ten Weather Conditions Sample Description Observation Time pH (units) 1201 7.3	urements Te uble Metals For perature Con During Sample:	mp. Corrected. Filtered in Field rection Factor. pling: 57°, pling: 600.	Temp (°C) (observed)	D.O. (mg/l) 7.3	No	NA NA Volume Purged (cumulative gal) Z () - 8 2 () - (e	
	Analyzed I Field Meas Sample for Sol Ten Weather Conditions Sample Description Observation Time pH (units) 1201 7.3	urements Te uble Metals For perature Con During Sample:	mp. Corrected. Filtered in Field rection Factor. pling: 57°, pling: 600.	Temp (°C) (observed)	D.O. (mg/l) 7.8	No	NA NA Volume Purged (cumulative gal) Z () - 8 2 () - (e	
	Analyzed I Field Meas Sample for Sol Ten Weather Conditions Sample Description Observation Time pH (units) 1201 7.3	urements Te uble Metals For perature Con During Sample:	mp. Corrected. Filtered in Field rection Factor. pling: 57°, pling: 600.	Temp (°C) (observed)	D.O. (mg/l) 7.3	No	NA NA Volume Purged (cumulative gal) Z () - 8 2 () - (e	
	Analyzed I Field Meas Sample for Sol Ten Weather Conditions Sample Description Observation Time pH (units) 1201 7.3	urements Te uble Metals Finerature Co During Sample: Chror Specific (um 500 500 500	mp. Corrected. Filtered in Field rection Factor. pling: 57°. pling: 6000	Temp (°C) (observed)	D.O. (mg/l) 7.3	No	NA NA Volume Purged (cumulative gal) Z () - 8 2 () - (e	
	Analyzed I Field Meas Sample for Sol Ten Weather Conditions Sample Description Observation Time pH (units) 1201 7.3	Specific (un 500	mp. Corrected. Filtered in Field rection Factor. pling: 57°. Conductance phos/cm)	Temp (°C) (observed)	D.O. (mg/l) 7. 8	No	NA NA Volume Purged (cumulative gal) Z () - 8 2 () - (e	
Pi	Analyzed I Field Meas Sample for Sol Ten Weather Conditions Sample Description Observation Time pH (units) 1201 7.3 1217 7.3	Specific (un 500	mp. Corrected. Filtered in Field rection Factor. pling: 57°. pling: 6000	Temp (°C) (observed)	D.O. (mg/l) 7. 8	No	NA NA Volume Purged (cumulative gal) Z () - 8 2 () - (e	



•	130 533	ng Point ID_ e Diameter	3.0	(inches)	Key# 2	role.			Not Locked
		g Material:	[₹ PVC		teel	Stainless 8	Locke		_ Not Locked
	RIGHT I		-		0.090	tions (from		casing)	
			op.iii iiiodo	ai oiiioiit		sing Elevation			Feet
						tal Well Depth			Feet
1		Static wat	er level meas	urement be	efore purgin	g (Start Depth			Feet * 5/2/22
I	St	tatic water le				(Final Depth		33	Feet
Š		2 10 1				Before Purging			Feet
1			will Bledde	Pemp	- 20			BPC .	
Ĭ		rged <u>51시</u>	35 - 13:	70	-		ter Column		Feet
l			0.2	50	GPM/LPI		ing Volume ime Purged		Gallons
L	1,518,772,00	-			201,011	vi voic	ine ruigeu		Gallons
		e Sampled_			Fiel	d Paramete	r Measure		
ı		e Sampled _	The state of the s	_ ~		рН 7.6	(units)		0 8.8 (mg/l)
ı	Samp	THE PROPERTY OF THE PARTY OF TH	Sump + Filte	-		nd. 500	(jumhos/cm)	Turbidit	ty D. AD (NTU)
ı	- 2	the state of the s	MPS-8		emp. Observ		(,c)	E	h_150_(mV)
	A	nalyzed by_	KCM	_ Te	emp. Correc	ted_10-4	(°C)	Othe	er
2	- N. S.	200000000000000000000000000000000000000	-			11.0	- 000000		
- COLUMN TO SERVICE STATE OF THE PERSON SERVICE STATE STATE OF THE PERSON SERVICE STATE	F		ments Temp.			⊠ Yes	☐ No	□ NA	
- Company	F	le for Soluble	e Metals Filter	red in Field		✓ Yes	□ No □ No .	□ NA	
	F Samp	le for Soluble Tempe	e Metals Filter rature Correc	red in Field	Ð	⊠ Yes °C	□ No		
	Samp Weather C	le for Soluble Tempe onditions Du	e Metals Filter rature Correct tring Sampling	red in Field tion Factor g: 61°	Supin	✓ Yes	□ No		
	Samp Weather C	le for Soluble Tempe onditions Du escription:	e Metals Filter rature Correct uring Sampling Clean in	red in Field tion Factor g: 61°	Supin	⊠ Yes °C	□ No		
	Samp Weather C	le for Soluble Tempe onditions Du	e Metals Filter rature Correct uring Sampling Clean in	red in Field tion Factor g: 61°	Supin	⊠ Yes °C	□ No		
	Samp Weather C 'Sample D Obs	le for Soluble Tempe onditions Du escription: servations:	e Metals Filter rature Correct tring Sampling Clean in	red in Field tion Factor a: 61° octo	Supp	Yes °C Wind	□ No .	□ NA	
	Samp Weather C	le for Soluble Tempe onditions Du escription:	e Metals Filter rature Correct uring Sampling Clean in	red in Field tion Factor a: 61° a actor ductance	Supin	Yes C Wind	□ No .	□ NA	Volume Purgeo
	Samp Weather C 'Sample D Obs	le for Soluble Tempe onditions Du escription: servations:	e Metals Filter rature Correct uring Sampling Clean in Specific Con-	red in Field tion Factor a: 61° a actor ductance	Supplied Temp (10	Yes °C Wind	□ No .	Eh (mV)	Volume Purgeo
	Weather C 'Sample D Obs	le for Soluble Tempe onditions Du escription: servations: pH (units)	e Metals Filter rature Correct uring Sampling Clean in Specific Con-	red in Field tion Factor a: 61° a actor ductance	Temp ("C (observed	Yes C Wind	Turbidity (NTU)	Eh (mV)	Volume Purgeo
	Weather C Sample D Obs Time	le for Soluble Tempe onditions Du escription: servations: pH (units)	Specific Con-	red in Field tion Factor a: 61° a actor ductance	Temp ("C (observed 10 q	Yes C Wind	Turbidity (NTU)	Eh (mV)	Volume Purgeo (cumulative gal)
	Weather C Sample D Obs Time	le for Soluble Tempe onditions Du escription: servations: pH (units) 7.6	Specific Con-	red in Field tion Factor a: 61° a actor ductance	Temp ("C (observed	Yes °C Wind D.O. (mg/l) 8.9 8.9 8.9	Turbidity (NTU) O.Q.	Eh (mV)	Volume Purgeo (cumulative gal)
	Weather C Sample D Obs Time	le for Soluble Tempe onditions Du escription: servations: pH (units) 7.6	Specific Con-	red in Field tion Factor a: 61° a actor ductance	Temp ("C (observed	Yes °C Wind D.O. (mg/l) 8.9 8.9 8.9	Turbidity (NTU) O.Q.	Eh (mV)	Volume Purgeo (cumulative gal)
	Weather C Sample D Obs Time	le for Soluble Tempe onditions Du escription: servations: pH (units) 7.6	Specific Con-	red in Field tion Factor a: 61° a actor ductance	Temp ("C (observed	Yes °C Und	Turbidity (NTU) O.Q.	Eh (mV)	Volume Purgeo (cumulative gal)
	Veather C Sample D Obs Time 1340 1345	le for Soluble Tempe onditions Du escription: servations: pH (units) 7.6 7.0	Specific Consultations Specific Consultations Specific Consultations Sud	red in Field tion Factor a: 61° a actor ductance form)	Temp (ro (observed 10 9 10. 9	Yes °C Wind D.O. (mg/l) 8.9 8.9 8.9	Turbidity (NTU) O.Q.	Eh (mV)	Volume Purgeo (cumulative gal)
	Veather C Sample D Obs Time 1340 1345 1350	pH (units)	Specific Con-	red in Field tion Factor a: 61° a actor ductance form)	Temp ("C (observed	Yes °C Wind D.O. (mg/l) 8.9 8.9 8.9	Turbidity (NTU) O.Q.	Eh (mV)	Volume Purgeo (cumulative gal)
	Veather C Sample D Obs Time 1340 1345 1350	pH (units)	Specific Consultations	red in Field tion Factor a: 61° cock	Temp (10 (observed 10 9 10 9 10 9	Yes C Wind D.O. (mg/l) B.9 B.9 B.9 B.9 B.9 Cher	Turbidity (NTU) O.Q.	Eh (mV)	Volume Purgeo (cumulative gal)
B	Veather C Sample D Obs Time 1340 1345 1350	pH (units)	Specific Consultations Specific Consultations Specific Consultations Sud	red in Field tion Factor a: 61° cock	Temp (ro (observed 10 9 10. 9	Yes C Wind D.O. (mg/l) B.9 B.9 B.9 B.9 B.12	Turbidity (NTU) O.Q.	Eh (mV)	Volume Purgeo (cumulative gal)





09 June 2022

Eric Ealy

Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis, MN 55401

RE: Sherco BAP2 CCR

Enclosed are the results of analyses for samples received by the laboratory on 05/05/2022 07:30. If you have any questions concerning this report, please feel free to contact me.

CC:

I certify that this analysis report was prepared under my direction or supervision under a system designed to assure that qualified personnel analyzed the submitted samples. All protocols for analysis were followed as required by Minnesota Rules and the Applicable Management Plan.

Sincerely,

Steve Davis

Project Manager



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/09/2022 10:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sample Qualifier	Laboratory ID	Matrix	Sampled	Received
P-17		MHE0049-06	Water	05/04/2022 13:20	05/05/2022 7:30
P-158		MHE0049-27	Water	05/04/2022 11:40	05/05/2022 7:30
P-173		MHE0049-28	Water	05/03/2022 9:45	05/05/2022 7:30
P-174		MHE0049-29	Water	05/03/2022 10:40	05/05/2022 7:30
P-175		MHE0049-30	Water	05/03/2022 11:25	05/05/2022 7:30
P-176		MHE0049-31	Water	05/04/2022 16:45	05/05/2022 7:30
P-177		MHE0049-32	Water	05/04/2022 12:20	05/05/2022 7:30
P-178A		MHE0049-33	Water	05/04/2022 13:35	05/05/2022 7:30
Duplicate CCR-BAP2		MHE0049-42	Water	05/03/2022 9:45	05/05/2022 7:30
Rinse CCR-BAP2		MHE0049-43	Water	05/03/2022 9:20	05/05/2022 7:30



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

06/09/2022 10:28

P-17 MHE0049-06 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	ohy									
Chloride	8.33	1.00	mg/L		1	BHE0140	5/5/22 12:14	5/5/22 17:11	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHE0140	5/5/22 12:14	5/5/22 17:11	EPA 300.0	CRL
Sulfate	14.3	1.00	mg/L		1	BHE0140	5/5/22 12:14	5/5/22 17:11	EPA 300.0	CRL
Wet Chemistry										
рН	7.85		pH Units	M_TTT	1	BHE0115	5/5/22 9:40	5/5/22 11:09	SM 4500-H+ B	CRL
Total Dissolved Solids	240	25.0	mg/L		1	BHE0095	5/5/22 12:12	5/5/22 12:12	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHE0094	5/5/22 9:54	5/5/22 9:54	SM 2540D	HSD
Total Metals by ICP										
Boron	0.0690	0.0500	mg/L	•	1	BHE0172	5/9/22 9:56	5/11/22 14:21	EPA 200.7	HRD
Calcium	55.7	1.50	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 14:19	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/09/2022 10:28

P-158 MHE0049-27 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutior	ı Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	7.52	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 13:56	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 13:56	EPA 300.0	CRL
Sulfate	132	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 13:56	EPA 300.0	CRL
Wet Chemistry										
pH	7.69		pH Units	M_TTT	1	BHE0115	5/5/22 9:40	5/5/22 13:34	SM 4500-H+ B	CRL
Total Dissolved Solids	482	25.0	mg/L		1	BHE0158	5/7/22 10:39	5/7/22 10:39	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHE0157	5/7/22 8:34	5/7/22 8:34	SM 2540D	HSD
Total Metals by ICP										
Boron	0.959	0.0500	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:14	EPA 200.7	HRD
Calcium	103	1.50	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:13	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Manager: Eric Ealy

06/09/2022 10:28

P-173 MHE0049-28 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutior	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	6.70	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 14:17	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 14:17	EPA 300.0	CRL
Sulfate	24.1	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 14:17	EPA 300.0	CRL
Wet Chemistry										
рН	7.78		pH Units	M_TTT	1	BHE0115	5/5/22 9:40	5/5/22 13:38	SM 4500-H+ B	CRL
Total Dissolved Solids	308	25.0	mg/L		1	BHE0158	5/7/22 10:39	5/7/22 10:39	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHE0157	5/7/22 8:34	5/7/22 8:34	SM 2540D	HSD
Total Metals by ICP										
Boron	0.152	0.0500	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:20	EPA 200.7	HRD
Calcium	74.1	1.50	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:18	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/09/2022 10:28

P-174 MHE0049-29 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	2.94	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 16:21	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 16:21	EPA 300.0	CRL
Sulfate	53.8	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 16:21	EPA 300.0	CRL
Wet Chemistry										
рН	7.73		pH Units	M_TTT	1	BHE0115	5/5/22 9:40	5/5/22 13:41	SM 4500-H+ B	CRL
Total Dissolved Solids	366	25.0	mg/L		1	BHE0158	5/7/22 10:39	5/7/22 10:39	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHE0157	5/7/22 8:34	5/7/22 8:34	SM 2540D	HSD
Total Metals by ICP										
Boron	0.376	0.0500	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:26	EPA 200.7	HRD
Calcium	82.4	1.50	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:24	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Manager: Eric Ealy

06/09/2022 10:28

P-175 MHE0049-30 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	2.44	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 16:42	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 16:42	EPA 300.0	CRL
Sulfate	28.0	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 16:42	EPA 300.0	CRL
Wet Chemistry										
pH	7.84		pH Units	M_TTT	1	BHE0115	5/5/22 9:40	5/5/22 13:45	SM 4500-H+ B	CRL
Total Dissolved Solids	270	25.0	mg/L		1	BHE0158	5/7/22 10:39	5/7/22 10:39	SM 2540C	HSD
Total Suspended Solids	59.0	6.25	mg/L		1	BHE0157	5/7/22 8:34	5/7/22 8:34	SM 2540D	HSD
Total Metals by ICP										
Boron	0.198	0.0500	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:42	EPA 200.7	HRD
Calcium	66.0	1.50	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:40	EPA 200.7	HRD



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

06/09/2022 10:28

P-176 MHE0049-31 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	2.84	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 17:02	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 17:02	EPA 300.0	CRL
Sulfate	50.0	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 17:02	EPA 300.0	CRL
Wet Chemistry										
рН	7.74		pH Units	M_TTT	1	BHE0115	5/5/22 9:40	5/5/22 13:59	SM 4500-H+ B	CRL
Total Dissolved Solids	344	25.0	mg/L		1	BHE0158	5/7/22 10:39	5/7/22 10:39	SM 2540C	HSD
Total Suspended Solids	15.6	5.00	mg/L		1	BHE0157	5/7/22 8:34	5/7/22 8:34	SM 2540D	HSD
Total Metals by ICP										
Boron	0.389	0.0500	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:46	EPA 200.7	HRD
Calcium	75.0	1.50	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:45	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/09/2022 10:28

P-177 MHE0049-32 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	ı Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	hy									
Chloride	2.73	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 17:23	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 17:23	EPA 300.0	CRL
Sulfate	20.8	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 17:23	EPA 300.0	CRL
Wet Chemistry										
рН	7.82		pH Units	M_TTT	1	BHE0115	5/5/22 9:40	5/5/22 14:03	SM 4500-H+ B	CRL
Total Dissolved Solids	260	25.0	mg/L		1	BHE0158	5/7/22 10:39	5/7/22 10:39	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHE0157	5/7/22 8:34	5/7/22 8:34	SM 2540D	HSD
Total Metals by ICP										
Boron	0.109	0.0500	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:52	EPA 200.7	HRD
Calcium	62.1	1.50	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:50	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/09/2022 10:28

P-178A MHE0049-33 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	hy									
Chloride	5.38	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 17:44	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 17:44	EPA 300.0	CRL
Sulfate	28.6	1.00	mg/L		1	BHE0153	5/6/22 7:22	5/6/22 17:44	EPA 300.0	CRL
Wet Chemistry										
рН	7.96		pH Units	M_TTT	1	BHE0115	5/5/22 9:40	5/5/22 14:10	SM 4500-H+ B	CRL
Total Dissolved Solids	264	25.0	mg/L		1	BHE0158	5/7/22 10:39	5/7/22 10:39	SM 2540C	HSD
Total Suspended Solids	8.80	5.00	mg/L		1	BHE0157	5/7/22 8:34	5/7/22 8:34	SM 2540D	HSD
Total Metals by ICP										
Boron	0.155	0.0500	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:57	EPA 200.7	HRD
Calcium	36.8	1.50	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 15:55	EPA 200.7	HRD



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

06/09/2022 10:28

Duplicate CCR-BAP2

MHE0049-42 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutior	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	6.54	1.00	mg/L		1	BHE0178	5/9/22 7:39	5/9/22 11:51	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHE0178	5/9/22 7:39	5/9/22 11:51	EPA 300.0	CRL
Sulfate	24.0	1.00	mg/L		1	BHE0178	5/9/22 7:39	5/9/22 11:51	EPA 300.0	CRL
Wet Chemistry										
pH	7.52		pH Units	M_TTT	1	BHE0179	5/9/22 7:43	5/9/22 9:06	SM 4500-H+ B	CRL
Total Dissolved Solids	316	25.0	mg/L		1	BHE0171	5/8/22 9:45	5/8/22 9:45	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHE0170	5/8/22 7:42	5/8/22 7:42	SM 2540D	HSD
Total Metals by ICP										
Boron	0.147	0.0500	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 16:07	EPA 200.7	HRD
Calcium	74.3	1.50	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 16:05	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/09/2022 10:28

Rinse CCR-BAP2 MHE0049-43 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	ı Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	< 1.00	1.00	mg/L		1	BHE0178	5/9/22 7:39	5/9/22 12:12	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHE0178	5/9/22 7:39	5/9/22 12:12	EPA 300.0	CRL
Sulfate	< 1.00	1.00	mg/L		1	BHE0178	5/9/22 7:39	5/9/22 12:12	EPA 300.0	CRL
Wet Chemistry										
рН	5.96		pH Units	M_TTT	1	BHE0179	5/9/22 7:43	5/9/22 9:10	SM 4500-H+ B	CRL
Total Dissolved Solids	< 25.0	25.0	mg/L	M_ES	1	BHE0171	5/8/22 9:45	5/8/22 9:45	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHE0170	5/8/22 7:42	5/8/22 7:42	SM 2540D	HSD
Total Metals by ICP										
Boron	< 0.0500	0.0500	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 14:38	EPA 200.7	HRD
Calcium	< 1.50	1.50	mg/L		1	BHE0172	5/9/22 9:56	5/11/22 14:36	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2 Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/09/2022 10:28

	_	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHE0140 - Wet Prep										
Blank (BHE0140-BLK1)				Prepared	& Analyze	d: 05/05/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
Blank (BHE0140-BLK2)				Prepared	& Analyze	d: 05/05/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
LCS (BHE0140-BS1)				Prepared	& Analyze	d: 05/05/2	022			
Chloride	24.822	1.00	mg/L	25.000		99.3	90-110			
Fluoride	2.5520	0.750	mg/L	2.5000		102	90-110			
Sulfate	24.482	1.00	mg/L	25.000		97.9	90-110			
LCS (BHE0140-BS2)				Prepared	& Analyze	d: 05/05/2	022			
Chloride	24.979	1.00	mg/L	25.000		99.9	90-110			
Fluoride	2.5860	0.750	mg/L	2.5000		103	90-110			
Sulfate	24.568	1.00	mg/L	25.000		98.3	90-110			
LCS (BHE0140-BS3)				Prepared	& Analyze	d: 05/05/2	022			
Chloride	25.067	1.00	mg/L	25.000		100	90-110			
Fluoride	2.5940	0.750	mg/L	2.5000		104	90-110			
Sulfate	24.616	1.00	mg/L	25.000		98.5	90-110			
Duplicate (BHE0140-DUP1)	So	urce: MHE004	10-01	Prepared	& Analyze	d: 05/05/2	022			
Chloride	8.1310	1.00	mg/L		8.1420			0.135	20	
Fluoride	0.063000	0.750	mg/L		0.063000			0.00	20	
Sulfate	8.3250	1.00	mg/L		8.3340			0.108	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/09/2022 10:28

		Reporting		Spike	Source	0/===	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHE0140 - Wet Prep										
Duplicate (BHE0140-DUP2)	Sou	urce: MHE004	19-02	Prepared	& Analyzed	d: 05/05/2	022			
Chloride	0.66100	1.00	mg/L		0.66000			0.151	20	
Fluoride	0.087000	0.750	mg/L		0.086000			1.16	20	
Sulfate	6.3450	1.00	mg/L		6.3290			0.252	20	
Matrix Spike (BHE0140-MS1)	Sou	urce: MHE004	40-01	Prepared	& Analyzed	d: 05/05/2	022			
Chloride	34.833	1.11	mg/L	27.778	8.1420	96.1	90-110			
Fluoride	2.7900	0.833	mg/L	2.7778	<0.833	100	90-110			
Sulfate	34.910	1.11	mg/L	27.778	8.3340	95.7	90-110			
Matrix Spike (BHE0140-MS2)	Sou	urce: MHE004	19-02	Prepared	& Analyzed	d: 05/05/2	022			
Chloride	28.587	1.11	mg/L	27.778	0.66000	101	90-110			
Fluoride	3.0233	0.833	mg/L	2.7778	0.086000	106	90-110			
Sulfate	34.514	1.11	mg/L	27.778	6.3290	101	90-110			
Matrix Spike Dup (BHE0140-MSD1)	Sou	urce: MHE004	40-01	Prepared	& Analyzed	d: 05/05/2	022			
Chloride	35.474	1.11	mg/L	27.778	8.1420	98.4	90-110	1.82	20	
Fluoride	2.8778	0.833	mg/L	2.7778	<0.833	104	90-110	3.10	20	
Sulfate	35.540	1.11	mg/L	27.778	8.3340	97.9	90-110	1.79	20	
Matrix Spike Dup (BHE0140-MSD2)	Sou	urce: MHE004	19-02	Prepared	& Analyzed	d: 05/05/2	022			
Chloride	27.902	1.11	mg/L	27.778	0.66000	98.1	90-110	2.42	20	
Fluoride	2.9522	0.833	mg/L	2.7778	0.086000	103	90-110	2.38	20	
Sulfate	33.844	1.11	mg/L	27.778	6.3290	99.1	90-110	1.96	20	
Batch BHE0153 - Wet Prep										
Blank (BHE0153-BLK1)				Prepared	& Analyzed	d: 05/06/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	< 0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Milaiyte	Nesult	LIIIII	Ullito	LEVEI	INCOUIL	/01\LC	LIIIIII	IVED	LIIIII	INUICS
Batch BHE0153 - Wet Prep										
Blank (BHE0153-BLK2)				Prepared	& Analyze	d: 05/06/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
LCS (BHE0153-BS1)				Prepared	& Analyze	d: 05/06/2	022			
Chloride	25.241	1.00	mg/L	25.000		101	90-110			
Fluoride	2.6500	0.750	mg/L	2.5000		106	90-110			
Sulfate	24.906	1.00	mg/L	25.000		99.6	90-110			
LCS (BHE0153-BS2)				Prepared	& Analyze	d: 05/06/2	022			
Chloride	25.117	1.00	mg/L	25.000		100	90-110			
Fluoride	2.6260	0.750	mg/L	2.5000		105	90-110			
Sulfate	24.653	1.00	mg/L	25.000		98.6	90-110			
LCS (BHE0153-BS3)				Prepared	& Analyze	d: 05/06/2	022			
Chloride	25.277	1.00	mg/L	25.000		101	90-110			
Fluoride	2.6410	0.750	mg/L	2.5000		106	90-110			
Sulfate	24.845	1.00	mg/L	25.000		99.4	90-110			
Duplicate (BHE0153-DUP1)	Sou	urce: MHE004	19-19	Prepared	& Analyze	d: 05/06/2	022			
Chloride	37.393	1.00	mg/L		37.398			0.0134	20	
Fluoride	<0.750	0.750	mg/L		< 0.750				20	
Sulfate	54.150	1.00	mg/L		54.165			0.0277	20	
Duplicate (BHE0153-DUP2)	Sou	urce: MHE004	19-20	Prepared	& Analyze	d: 05/06/2	022			
Chloride	34.104	1.00	mg/L		34.112			0.0235	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	111.41	1.00	mg/L		111.21			0.182	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

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Minneapolis MN, 55401 Project Manager: Eric Ealy 06/09/2022 10:28

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
,					. 100011	78.120				
Batch BHE0153 - Wet Prep										
Matrix Spike (BHE0153-MS1)	Sour	ce: MHE004	9-19	Prepared	& Analyze	d: 05/06/2	022			
Chloride	65.421	1.11	mg/L	27.778	37.398	101	90-110			
Fluoride	2.9811	0.833	mg/L	2.7778	<0.833	107	90-110			
Sulfate	82.354	1.11	mg/L	27.778	54.165	101	90-110			
Matrix Spike (BHE0153-MS2)	Sour	ce: MHE004	9-20	Prepared	& Analyze	d: 05/06/2	022			
Chloride	61.564	1.11	mg/L	27.778	34.112	98.8	90-110			
Fluoride	2.9144	0.833	mg/L	2.7778	<0.833	105	90-110			
Sulfate	138.59	1.11	mg/L	27.778	111.21	98.6	90-110			
Matrix Spike Dup (BHE0153-MSD1)	Sour	ce: MHE004	9-19	Prepared	& Analyze	d: 05/06/2	022			
Chloride	65.168	1.11	mg/L	27.778	37.398	100	90-110	0.388	20	
Fluoride	2.9589	0.833	mg/L	2.7778	<0.833	107	90-110	0.748	20	
Sulfate	82.076	1.11	mg/L	27.778	54.165	100	90-110	0.339	20	
Matrix Spike Dup (BHE0153-MSD2)	Sour	ce: MHE004	9-20	Prepared	& Analyze	d: 05/06/2	022			
Chloride	61.641	1.11	mg/L	27.778	34.112	99.1	90-110	0.124	20	
Fluoride	2.9311	0.833	mg/L	2.7778	<0.833	106	90-110	0.570	20	
Sulfate	138.67	1.11	mg/L	27.778	111.21	98.9	90-110	0.0625	20	
Batch BHE0178 - Wet Prep										
Blank (BHE0178-BLK1)				Prepared	& Analyze	d: 05/09/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
Blank (BHE0178-BLK2)				Prepared	& Analyze	d: 05/09/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHE0178 - Wet Prep										
LCS (BHE0178-BS1)				Prepared	& Analyze	d: 05/09/2	022			
Chloride	24.864	1.00	mg/L	25.000		99.5	90-110			
Fluoride	2.6070	0.750	mg/L	2.5000		104	90-110			
Sulfate	24.474	1.00	mg/L	25.000		97.9	90-110			
LCS (BHE0178-BS2)				Prepared	& Analyze	d: 05/09/2	022			
Chloride	24.726	1.00	mg/L	25.000		98.9	90-110			
Fluoride	2.5950	0.750	mg/L	2.5000		104	90-110			
Sulfate	24.262	1.00	mg/L	25.000		97.0	90-110			
LCS (BHE0178-BS3)				Prepared	& Analyze	d: 05/09/2	022			
Chloride	24.692	1.00	mg/L	25.000		98.8	90-110			
Fluoride	2.5870	0.750	mg/L	2.5000		103	90-110			
Sulfate	24.223	1.00	mg/L	25.000		96.9	90-110			
Duplicate (BHE0178-DUP1)	Sou	rce: MHE004	19-40	Prepared	& Analyze	d: 05/09/2	022			
Chloride	10.838	1.00	mg/L		10.380			4.32	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	57.982	1.00	mg/L		55.592			4.21	20	
Duplicate (BHE0178-DUP2)	Sou	rce: MHE004	19-42	Prepared	& Analyze	d: 05/09/2	022			
Chloride	6.5370	1.00	mg/L		6.5390			0.0306	20	
Fluoride	0.074000	0.750	mg/L		<0.750				20	
Sulfate	23.912	1.00	mg/L		23.962			0.209	20	
Matrix Spike (BHE0178-MS1)	Sou	rce: MHE004	19-40	Prepared	& Analyze	d: 05/09/2	022			
Chloride	37.709	1.11	mg/L	27.778	10.380	98.4	90-110			
Fluoride	2.8056	0.833	mg/L	2.7778	<0.833	101	90-110			
Sulfate	85.400	1.11	mg/L	27.778	55.592	107	90-110			



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

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Minneapolis MN, 55401 Project Manager: Eric Ealy 06/09/2022 10:28

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHE0178 - Wet Prep										
Matrix Spike (BHE0178-MS2)	Sour	ce: MHE004	19-42	Prepared	& Analyze	d: 05/09/2	022			
Chloride	34.266	1.11	mg/L	27.778	6.5390	99.8	90-110			
Fluoride	2.9489	0.833	mg/L	2.7778	<0.833	106	90-110			
Sulfate	51.892	1.11	mg/L	27.778	23.962	101	90-110			
Matrix Spike Dup (BHE0178-MSD1)	Sour	ce: MHE004	19-40	Prepared	& Analyze	d: 05/09/2	022			
Chloride	38.472	1.11	mg/L	27.778	10.380	101	90-110	2.00	20	
Fluoride	2.9067	0.833	mg/L	2.7778	<0.833	105	90-110	3.54	20	
Sulfate	85.968	1.11	mg/L	27.778	55.592	109	90-110	0.663	20	
Matrix Spike Dup (BHE0178-MSD2)	Sour	ce: MHE004	19-42	Prepared	& Analyze	d: 05/09/2	022			
Chloride	34.074	1.11	mg/L	27.778	6.5390	99.1	90-110	0.559	20	
Fluoride	2.9311	0.833	mg/L	2.7778	<0.833	106	90-110	0.605	20	
Sulfate	51.719	1.11	mg/L	27.778	23.962	99.9	90-110	0.335	20	



Environmental Services-Water Minneapolis

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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHE0094 - Wet Prep										
Blank (BHE0094-BLK1)				Prepared	& Analyze	d: 05/05/2	2022			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BHE0094-BS1)				Prepared	& Analyze	d: 05/05/2	2022			
Total Suspended Solids	78.000	5.00	mg/L	102.20		76.3	70-130			
Duplicate (BHE0094-DUP1)	Source	ce: MHE00	49-01	Prepared	& Analyze	d: 05/05/2	2022			
Total Suspended Solids	5.5000	12.5	mg/L		5.2000			5.61	20	M_ES
Duplicate (BHE0094-DUP2)	Source	ce: MHE00	49-02	Prepared	& Analyze	d: 05/05/2	2022			
Total Suspended Solids	6.5000	12.5	mg/L		7.0000			7.41	20	M_ES
Batch BHE0095 - Wet Prep										
Blank (BHE0095-BLK1)				Prepared	& Analyze	d: 05/05/2	2022			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BHE0095-BS1)				Prepared	& Analyze	d: 05/05/2	2022			
Total Dissolved Solids	116.00	25.0	mg/L	104.10		111	70-130			
Duplicate (BHE0095-DUP1)	Source	ce: MHE00	49-01	Prepared	& Analyze	d: 05/05/2	2022			
Total Dissolved Solids	984.00	25.0	mg/L	•	992.00			0.810	20	
Duplicate (BHE0095-DUP2)	Source	ce: MHE004	49-02	Prepared	& Analyze	d: 05/05/2	2022			
Total Dissolved Solids	220.00	25.0	mg/L	•	230.00			4.44	20	
Batch BHE0115 - Wet Prep										
LCS (BHE0115-BS1)				Prepared	& Analyze	d: 05/05/2	2022			
pH	7.0800		pH Units	7.0000		101	90-110			



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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHE0115 - Wet Prep										
LCS (BHE0115-BS2)				Prepared	& Analyze	d: 05/05/2	022			
pH	7.0900		pH Units	7.0000		101	90-110			
Duplicate (BHE0115-DUP1)	Source	e: MHE004	19-01	Prepared	& Analyze	d: 05/05/2	022			
рН	7.5900		pH Units	•	7.6200			0.394	20	
Duplicate (BHE0115-DUP2)	Sourc	e: MHE004	19-11	Prepared	& Analyze	d: 05/05/2	022			
рН	7.6200		pH Units	•	7.6200			0.00	20	
Duplicate (BHE0115-DUP3)	Sourc	e: MHE004	19-21	Prepared	& Analyze	d: 05/05/2	022			
рН	7.7900		pH Units	•	7.7900			0.00	20	
Duplicate (BHE0115-DUP4)	Sourc	e: MHE004	19-31	Prepared	& Analyze	d: 05/05/2	022			
рН	7.7400		pH Units		7.7400			0.00	20	
Batch BHE0141 - Wet Prep										
Blank (BHE0141-BLK1)				Prepared	& Analyze	d: 05/06/2	022			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BHE0141-BS1)				Prepared	& Analyze	d: 05/06/2	022			
Total Suspended Solids	76.000	5.00	mg/L	102.20		74.4	70-130			
Duplicate (BHE0141-DUP1)	Source	e: MHE004	19-10	Prepared	& Analyze	d: 05/06/2	022			
Total Suspended Solids	6.0000	12.5	mg/L		7.2000			18.2	20	M_ES
Duplicate (BHE0141-DUP2)	Source	e: MHE004	19-11	Prepared	& Analyze	d: 05/06/2	022			
Total Suspended Solids	76.667	16.7	mg/L	-	79.600			3.75	20	



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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHE0142 - Wet Prep										
Blank (BHE0142-BLK1)				Prepared	& Analyze	d: 05/06/2	2022			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BHE0142-BS1)				Prepared	& Analyze	d: 05/06/2	2022			
Total Dissolved Solids	98.000	25.0	mg/L	104.10		94.1	70-130			
Duplicate (BHE0142-DUP1)	Source	ce: MHE004	19-10	Prepared	& Analyze	d: 05/06/2	2022			
Total Dissolved Solids	456.00	25.0	mg/L		450.00			1.32	20	
Duplicate (BHE0142-DUP2)	Source	ce: MHE004	19-11	Prepared	& Analyze	d: 05/06/2	2022			
Total Dissolved Solids	1598.0	25.0	mg/L		1686.0			5.36	20	
Batch BHE0157 - Wet Prep										
Blank (BHE0157-BLK1)				Prepared	& Analyze	d: 05/07/2	2022			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BHE0157-BS1)				Prepared	& Analyze	d: 05/07/2	2022			
Total Suspended Solids	74.000	5.00	mg/L	102.20		72.4	70-130			
Duplicate (BHE0157-DUP1)	Source	ce: MHE004	19-24	Prepared	& Analyze	d: 05/07/2	2022			
Total Suspended Solids	3.0000	12.5	mg/L		2.8000			6.90	20	M_ES
Batch BHE0158 - Wet Prep										
Blank (BHE0158-BLK1)				Prepared	& Analyze	d: 05/07/2	2022			
Total Dissolved Solids	<25.0	25.0	mg/L							



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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Nesuit	Liiiiii	Ullits	Levei	INCSUIL	70INLO	Lillins	INFD	LIIIII	140163
Batch BHE0158 - Wet Prep										
LCS (BHE0158-BS1)				Prepared	& Analyze	d: 05/07/2	022			
Total Dissolved Solids	100.00	25.0	mg/L	104.10		96.1	70-130			
Duplicate (BHE0158-DUP1)	Sou	ırce: MHE004	9-24	Prepared	& Analyze	d: 05/07/2	022			
Total Dissolved Solids	500.00	25.0	mg/L		504.00			0.797	20	
Batch BHE0170 - Wet Prep										
Blank (BHE0170-BLK1)				Prepared	& Analyze	d: 05/08/2	022			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BHE0170-BS1)				Prepared	& Analyze	d: 05/08/2	022			
Total Suspended Solids	76.000	5.00	mg/L	102.20		74.4	70-130			
Duplicate (BHE0170-DUP1)	Sou	ırce: MHE004	9-34	Prepared	& Analyze	d: 05/08/2	022			
Total Suspended Solids	60.500	12.5	mg/L		58.800			2.85	20	
Batch BHE0171 - Wet Prep										
Blank (BHE0171-BLK1)				Prepared	& Analyze	d: 05/08/2	022			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BHE0171-BS1)				Prepared	& Analyze	d: 05/08/2	022			
Total Dissolved Solids	74.000	25.0	mg/L	104.10		71.1	70-130			
Duplicate (BHE0171-DUP1)	Sou	ırce: MHE004	9-34	Prepared	& Analyze	d: 05/08/2	022			
Total Dissolved Solids	470.00	25.0	mg/L		458.00			2.59	20	



Environmental Services-Water Minneapolis	Project Name/Location: Sherco BAP2 CCR	
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	Rep	Spike	Source		%REC		RPD		
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHE0179 - Wet Prep									
LCS (BHE0179-BS1)			Prepared	& Analyze	d: 05/09/2	022			
pH	7.0800	pH Units	7.0000		101	90-110			
LCS (BHE0179-BS2)			Prepared	& Analyze	d: 05/09/2	022			
pH	7.0900	pH Units	7.0000		101	90-110			
Duplicate (BHE0179-DUP1)	Source:	MHE0072-01	Prepared	& Analyze	d: 05/09/2	022			
pH	7.6100	pH Units		7.6600			0.655	20	
Duplicate (BHE0179-DUP2)	Source:	MHE0072-11	Prepared	& Analyze	d: 05/09/2	022			
pH	7.8000	pH Units		7.8100			0.128	20	
Duplicate (BHE0179-DUP3)	Source:	MHE0072-22	Prepared	& Analyze	d: 05/09/2	022			
pH	8.0800	pH Units		8.0400			0.496	20	



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Total Metals by ICP - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHE0172 - EPA 200.2, EPA 300)5									
Blank (BHE0172-BLK1)				Prepared:	05/07/202	2 Analyze	ed: 05/11/2	022		
Boron	<0.0500	0.0500	mg/L							
Calcium	<1.50	1.50	mg/L							
.CS (BHE0172-BS1)				Prepared:	05/07/202	2 Analyze	ed: 05/11/2	022		
Boron	1.0046	0.0500	mg/L	1.0000		100	85-115			
Calcium	99.194	1.50	mg/L	100.00		99.2	85-115			
Ouplicate (BHE0172-DUP1)	Sou	rce: MHE004	19-01	Prepared:	05/07/202	2 Analyze	ed: 05/11/2	022		
Boron	3.1090	0.0500	mg/L		3.1679			1.88	20	
Calcium	149.40	1.50	mg/L		151.41			1.34	20	
Ouplicate (BHE0172-DUP2)	Sou	rce: MHE004	19-06	Prepared:	05/07/202	2 Analyze	ed: 05/11/2	022		
Boron	0.056383	0.0500	mg/L		0.069011			20.1	20	M_D
Calcium	52.248	1.50	mg/L		55.747			6.48	20	
Matrix Spike (BHE0172-MS1)	Sou	rce: MHE004	19-01	Prepared:	05/07/202	2 Analyze	ed: 05/11/2	022		
Boron	4.1186	0.0500	mg/L	1.0000	3.1679	95.1	70-130			
Calcium	247.29	1.50	mg/L	100.00	151.41	95.9	70-130			
latrix Spike (BHE0172-MS2)	Sou	rce: MHE004	19-06	Prepared:	05/07/202	22 Analyze	ed: 05/11/2	022		
Calcium	158.14	1.50	mg/L	100.00	55.747	102	70-130			
Boron	1.0786	0.0500	mg/L	1.0000	0.069011	101	70-130			
Matrix Spike Dup (BHE0172-MSD1)	Sou	rce: MHE004	19-01	Prepared:	05/07/202	2 Analyze	ed: 05/11/2	022		
Boron	4.1837	0.0500	mg/L	1.0000	3.1679	102	70-130	1.57	20	
Calcium	250.73	1.50	mg/L	100.00	151.41	99.3	70-130	1.38	20	
Matrix Spike Dup (BHE0172-MSD2)	Sou	rce: MHE004	19-06	Prepared:	05/07/202	2 Analyze	ed: 05/11/2	022		
Boron	1.1183	0.0500	mg/L	1.0000	0.069011	105	70-130	3.61	20	
Calcium	159.37	1.50	mg/L	100.00	55.747	104	70-130	0.775	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Manager: Eric Ealy

06/09/2022 10:28

Total Metals by ICP - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHE0198 - EPA 200.2, EPA 30	005									
Blank (BHE0198-BLK1)				Prepared	: 05/09/202	22 Analyze	ed: 05/11/2	022		
Calcium	<1.50	1.50	mg/L							
Boron	<0.0500	0.0500	mg/L							
LCS (BHE0198-BS1)				Prepared	: 05/09/202	22 Analyze	ed: 05/11/2	022		
Boron	0.99905	0.0500	mg/L	1.0000		99.9	85-115			
Calcium	100.20	1.50	mg/L	100.00		100	85-115			
Duplicate (BHE0198-DUP1)	Sou	rce: MHE007	2 -17	Prepared	: 05/09/202	22 Analyze	ed: 05/11/2	022		
Calcium	24.514	1.50	mg/L		24.981			1.89	20	
Boron	0.034914	0.0500	mg/L		0.035910			2.81	20	
Matrix Spike (BHE0198-MS1)	Sou	rce: MHE007	2-17	Prepared	: 05/09/202	22 Analyze	ed: 05/11/2	022		
Boron	1.0529	0.0500	mg/L	1.0000	0.035910	102	70-130			
Calcium	125.73	1.50	mg/L	100.00	24.981	101	70-130			
Matrix Spike Dup (BHE0198-MSD1)	Sou	rce: MHE007	72-17	Prepared	: 05/09/202	22 Analyze	ed: 05/11/2	022		
Boron	1.0408	0.0500	mg/L	1.0000	0.035910	100	70-130	1.16	20	<u> </u>
Calcium	125.20	1.50	mg/L	100.00	24.981	100	70-130	0.421	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/09/2022 10:28

Qualifiers and Definitions

M_TTT Sample received at the lab outside of required hold time.

M ES The reported value is an estimate. The amount of residue measured during analysis was outside of reference method

limits.

M D The RPD for the sample duplicate was outside of QC acceptance limits possibly due to non-homogeneous matrix.

Z Non Accredited Analyte

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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Section A	on A	Section B		Section C								۵۱	Page: 1	9 0
Requi	Required Client Information:	Required Project Information:		Invoice Information:	tion:									
Company:	any: Xcel Energy	Report To: Brad Jacobson	cobson	Attention:		Steve Davis	Davis				REGUL	REGULATORY AGENCY	GENCY	
Address:	ss: Environmental Services	Copy To: Riley Jacobson	cobson	Company Name:	or or					☐ NPDES	13	GROUND WATER [DRINK	DRINKING WATER
	MP-7			Address:						TSU _	L RCRA	L	OTHEF	OTHER MCES
Email To:	To: Brad Jacobson	Purchase Order No.:		Pace Quote Reference:	ference:					SITE	NC.		L Z	, L.,
Phone	Phone: (612) 597-7254 Fax:	Project Number		Pace Project Manager:		Brad Jacobson	son			LOCATION	L	OH L SCL	M	OTHER
Redue	Requested Due Date/TAT: 2 Weeks	Project Name: Xcel Er	Xcel Energy She	erco Ponds Spring	ng Pace Profile #:					Filtered (Y/N)			1	
	mation	Valid Matrix Codes MATRIX DRIBBRING WATER WASTE WASTE WASTE WASTE WASTE SOLUSOLD	XIX CODE	S C=COMP	COLLECTED	E TEMP AT LECTION	SABNIATING		Preservatives	Requested Analysis:	1	2442 23094 2442 2442 2442 2442 2442 2442 2442 2	SARANO (NIV) ONINON	act.
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Samples Intact

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DATE Signed (MM / DD / YY) S/4/22

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SAMPLER NAME AND SIGNATURE

SIGNATURE of SAMPLER:

N/A N/A

N/A N/A

N/A N/A

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Pace Analytical

Pace Project No. DRINKING WATE OTHER OTHER MCES of REGULATORY AGENCY Z N N Page: SCL _ __ GROUND WATER MN LHO NC CE 4 4 RCRA L L LOCATION xx × × NPDES Filtered (Y/N) SITE TSU T Requested Analysis: Methanol EOSSEN HOEN HCI EONH OSZH hpreserved Steve Davis # OF CONTAINERS Brad Jacobson SAMPLE TEMP AT COLLECTION 1275 S/4/22 1220 Onos TIME 8/2/22 1208 COMPOSITE END/GRAB Pace Profile #: 5/3/2C 5/3/22 DATE COLLECTED Pace Quote Reference: Pace Project Manager: TIME Invoice Information: Xcel Energy Sherco Ponds Spring Company Name: COMPOSITE START Section C DATE Address: G=GRAB C=COMP O O O O O O O O O 9 Riley Jacobson TW WT TW TW Brad Jacobson M MT M TW TW TW MATRIX CODE Required Project Information: Purchase Order No.: Project Number Project Name: Section B Report To: MATRIX
DIRIKGHG WATER
WATER
WASTE WATER
PRODUCT
SOULSOLD
OIL Copy To: Required Client Information P-50D P-90A P-92A P-92D P-62 P-66 P-89-1 P-90 P-56 D-60 P-88 Environmental Services 2 Weeks (A-Z, 0-9/,-) Sample IDs MUST BE UNIQUE Brad Jacobson One Character per box. SAMPLE ID Xcel Energy Required Client Information: **Fax:** Requested Due Date/TAT: Section D Phone; (612) 597-7254 Section A Company: Email To: Address: 9 8 10 2 က 6 ITEM #

Lab LD.

**All Metals Are Field Filtered Except Leachate Jet Strys. M Hours p e-File(ALLQ020rev.3,31Mar05))22Jun2005

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SIGNATURE of SAMPLER

SAMPLER NAME AND SIGNATURE

DATE Signed (MM / DD / YY)

N/A N/A

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N/A N/A N/A N/A

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2730 TIME

N/A N/A

SAMPLE CONDITIONS

DATE 5/5/22

ACCEPTED BY / AFFILIATION

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RELINQUISHED BY / AFFILIATION

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Additional Comments:

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	Section B		Section C							<u>د</u>	Page: 3	o
Required Client Information:	Required Project Information:	mation:	Invoice Information:									
Company: Xcel Energy R	Report To: Bra	Brad Jacobson	Attention:	Ste	Steve Davis	0			REGUL	REGULATORY AGENCY	SENCY	
Address: Environmental Services	Copy To: Rile	Riley Jacobson	Company Name:					L NPDES	1>	GROUND WATER	DRINKING WATER	ING V
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Email To: Brad Jacobson	Purchase Order No.:		Pace Quote Reference.	nce:				SITE	NO N	L L	L Z	M
Phone: (612) 597-7254 Fax: Fax:	Project Number		Pace Project Manager:	Jer. Brad Jacobson	cobson			LOCATION		- I scl	<u>></u>	OTHER
Requested Due Date/TAT: 2 Weeks	Project Name: Xc	Xcel Energy Sherco	Ponds Spring	Pace Profile #:				Filtered (Y/N)	/// "	///	1//	
t Information	Valid Matrix Codes MATRIX	Ξ	COLL	COLLECTED	1	Pre	Preservatives	Requested Analysis:			18	
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Section A	Ą	Section B		S	Section C										Page: 4	o	9
Required	Required Client Information:	Required Proj	Required Project Information:	=	Invoice Information:												
Company:	Xcel Energy	Report To:	Brad Jacobson		Attention:		Ste	Steve Davis	/is					REGULATORY AGENCY	QE QE	_	
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Phone: (612) 597-7254		Project Number	er.		Pace Project Manager:		Brad Jacobson	cobsor	_			LOCATION		L scL	> M	- OTHER	R
Requeste	ate/	Project Name:	Xcel Energy Sh	herco	erco Ponds Spring	Pace Profile #:	#:				ii.	Filtered (Y/N)					
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DRINKING WATE N/A N/A OTHER SAMPLE CONDITIONS OTHER MCES of N/A N/A L REGULATORY AGENCY > | | | Page: 5 N/A BAN SCL I NPDES F GROUND WATER [L NW L HO 05/0 TIME اكي RCRA L X LOCATION iltered (Y/N) Stoh SITE DATE × × TSU T Requested Analysis: ACCEPTED BY / AFFILIATION Methanol EOSSEN / XC HOEN НСІ EONH *OSZH pevieserved Steve Davis # OF CONTAINERS Brad Jacobson COLLECTION TA 9M3T 3J9MA2 TIME 5/3/2 0130 1430 545 2221 255 5460 1125 1040 TIME Pace Profile #: 5/3/22 5/3/12 5/3/12 11/1/5 DATE 21/1/5 nhis DATE styles COLLECTED Pace Quote Reference: Pace Project Manager: RELINQUISHED BY / AFFILIATION TIME Invoice Information: Xcel Energy Sherco Ponds Spring Company Name: COMPOSITE START Section C DATE Attention: Address: SAMPLE TYPE G=GRAB C=COMP WT G O O O O O O O O 0 0 0 TW TW TW WT M TW TW TW TW Brad Jacobson Riley Jacobson MT M MATRIX CODE Required Project Information: Jurchase Order No.: Project Number Project Name: Section B MATRIX
DRINGNO WATER
WASTE WATER
PRODUCT
SOUDSOLID Report To: Copy To: Required Client Information P-178B P-179A P-178A P-162 P-164 P-165 P-173 P-174 P-175 P-176 P-177 Environmental Services 2 Weeks One Character per box. (A-Z, 0-91, -.)
Sample IDs MUST BE UNIQUE Brad Jacobson SAMPLE ID Xcel Energy Fax: Required Client Information: equested Due Date/TAT: Section D Additional Comments: none; (612) 597-7254 Section A Company: Address: Email To: 10 3 4 9 8 6 ITEM #

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Pace Project No. Lab I.D. DRINKING WATER OTHER MCES SAMPLE CONDITIONS of N/A Z Z Page: 6 REGULATORY AGENCY × NO 1 SCL ☑ GROUND WATER
☐ 5 L Z HO × X 0730 INC. TIME X X RCRA X X L LOCATION × X X 15/2 NPDES iltered (Y/N) SITE DATE XX TSU T Requested Analysis: X X ACCEPTED BY / AFFILIATION EOSSEN Xe HOPN нсі EONH POSTH Unpreserved Steve Davis Brad Jacobson # OF CONTAINERS COLLECTION 0730 TA 9MBT BJ9MAR TIME 1535 Ochi 0001 5460 5051 221515 1020 1010 513/22 09/20 TIME Sial COMPOSITE END/GRAB Pace Profile #: 5/972 5/3/22 573/22 STUTZ 513/12 5/2/28 SBhr SIVIZZ DATE DATE COLLECTED Pace Quote Reference Pace Project Manager: RELINQUISHED BY / AFFILIATION TIME Invoice Information Xcel Energy Sherco Ponds Spring . Company Name: COMPOSITE START Section C DATE DITAL SAMPLE TYPE GMOD=D BARD=D 0 O O O O O O O O O O Riley Jacobson Brad Jacobson TW ₩ TW TW TW WT M TW MT TW LM. MATRIX CODE Required Project Information CODE DW WW WW OR OR TS urchase Order No. roject Number Project Name: Section B MATRIX
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ON Report To: Copy To: Duplicate NPDES Duplicate BAP2 Duplicate BAP Rinse NPDES Duplicate P3 Rinse BAP Rinse BAP2 Section D Required Client Information Rinse P3 P-179D P-180A P-180D 2 Weeks Environmental Services One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Brad Jacobson SAMPLE ID Xcel Energy Required Client Information: **Fax:** Requested Due Date/TAT: Additional Comments: 10ne; (612) 597-7254 Section A Company: mail To: (ddress: 9 9 7 8 6 ITEM # 7 F

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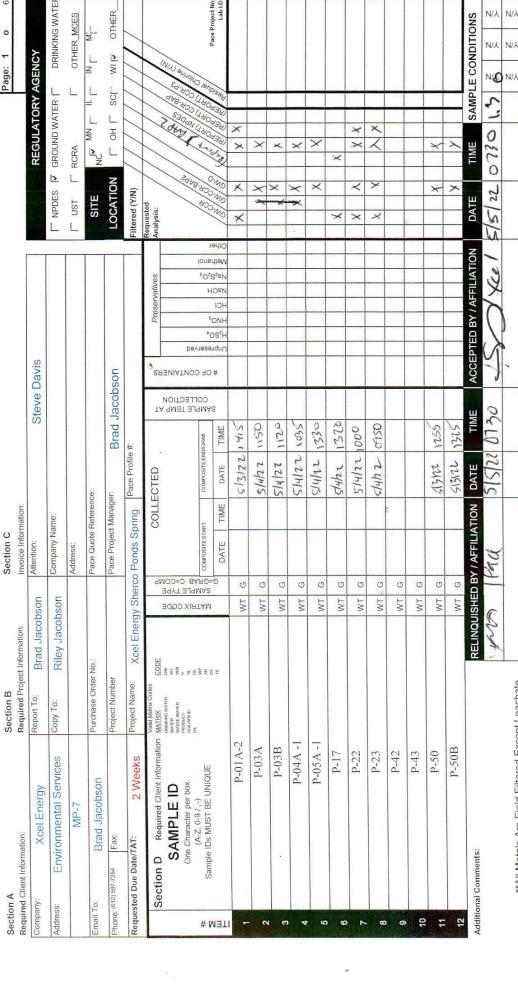
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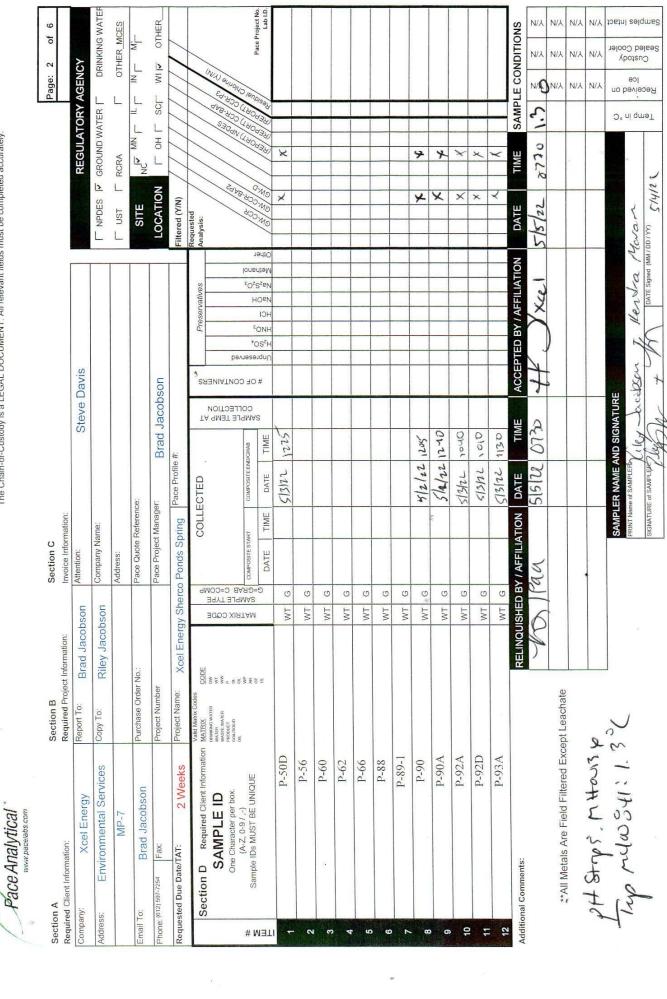
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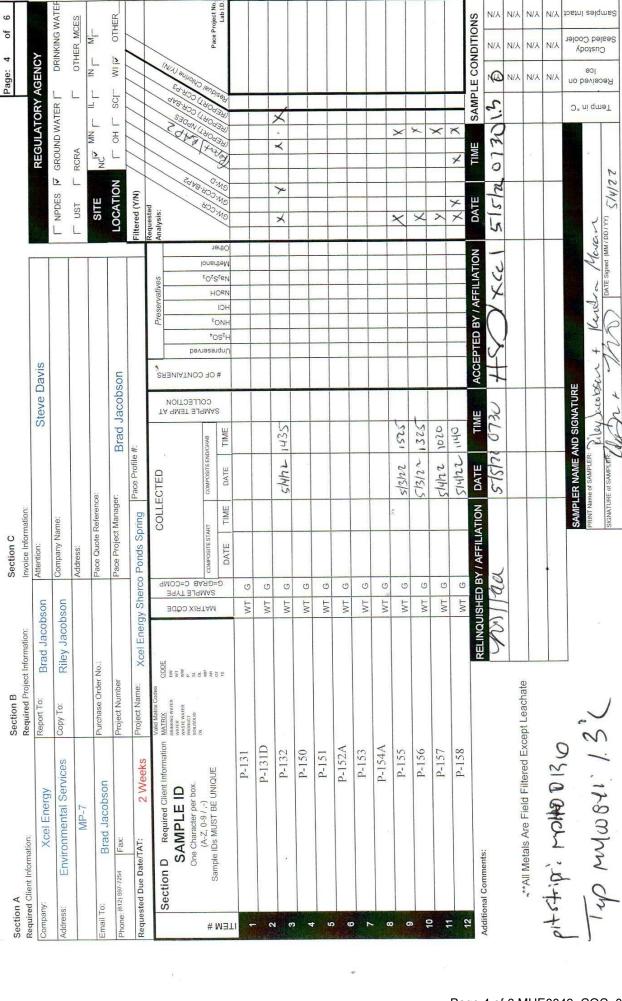
CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A	Section B		Section C							Page:	3 of
Required Client Information:	Required Project Information:	formation:	Invoice Information:								
Company: Xcel Energy	Report To: B	Brad Jacobson	Attention:		Steve Davis	avis			REGULATORY AGENCY	SY AGENC	∴
Address: Environmental Services	Copy To:	Riley Jacobson	Company Name:					L NPDES	GROUND WATER	1	DRINKING WAT
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Email To: Brad Jacobson	Purchase Order No.:	to	Pace Quote Reference	nce;				SITE	NC T	IL IN	W
Phone: (612) 597-7254 Fax:	Project Number		Pace Project Manager:	Jan 1985	Brad Jacobson	no		LOCATION	L HO L	SCI_ WILE	V OTHER
Requested Due Date/TAT: 2 Weeks		Xcel Energy Sherco	so Ponds Spring	Pace Profile #:				Filtered (Y/N)	1111	///	1
Section D Required Client Information MATRIX Codes SAMPLE ID WASHEWITE WASHEWITE	Valid Matrix Codes Nation MATRIX COD GRANDING DW WATRR WAT	:ODE	20.00	COLLECTED		Pre	Preservatives	Requested Analysis:	3.5	(NUX) E	
uo .	PROBUCT P SOIL/SOLID SIL OIL OIL	O XIRTAI - TAMA - BARE	COMPOSITE START	COMPOSITE END/GRAB	COLLEC'	рәлләз	εC	SA PA PS	SOAN (18)	AT) CCP.	
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	03130		•							N/A	N/A
The pulsosan: (3°	J. (1):		SAMP	SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER. R. (24 Level)	SIGNATURE A Lecebber	1 x 1 x 1	Verba M	Meran	⊃° ni qπ	eived on	ustody ed Cooler
			SIGNATI	SIGNATURE of SAMPLER	7	011	DATE Signed (MM / DD / YY)	I (MI GOI)		_	

e-File(ALLQ020rev.3,31Mar05))22Jun2005

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Pace Analytical www.paceabs.com



e-File(ALLQ020rev.3,31Mar05))22Jun2005

5/4/2

Mercar

lendra

Keeper

Ziley)

SIGNATURE of SAMPLER:

SAMPLER NAME AND SIGNATURE

N/A N/A

N/A

N/A N/A Samples Intact

Sealed Cooler

Custody

eol

Received on

O° ni qmaT

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	nation;	Section B Required Project Information:	Information:	Section C Invoice Information:									Page: 5	of 6
Company:	Xcel Energy	Report To:	Brad Jacobson	Attention:		Steve Davis	Davis				REGU	REGULATORY AGENCY	AGENCY	
Address: Env	Environmental Services	Copy To:	Riley Jacobson	Company Name:						☐ NPDES	GROUNI	GROUND WATER [70	DRINKING WATER
	MP-7			Address:						L UST	L RCRA			OTHER MCES
Email To:	Brad Jacobson	Purchase Order No.:	0.:	Pace Quote Reference	ce;					SITE	NC NC	IN I I	L N	M
Phone: (612) 597-7254	Fax:	Project Number		Pace Project Manager:		Brad Jacobson	son			LOCATION		OH L SCL	<u>></u>	OTHER
Requested Due Date/TAT:	TAT: 2 Weeks	Project Name:	Xcel Energy Sherco	so Ponds Spring	Pace Profile #:					Filtered (Y/N)			1	
Section D	SAMPLE ID One Character per box.	Valid Matrix Codes MATRIX DRINGONO WATER WASTER WATER PRODUCT PRODUCT	SIX CODE	COL	COLLECTED	LE TEMP AT LECTION	ONTAINERS (Preservatives		Requested Analysis:	1	2 48 400 83 GaN 84 400 84 400	AAB-842 (MY) GA-830 (MY) GARDING	
Sampl	(A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE		ITAM MAS	COMPOSITE STAR	COMPOSITE ENDA	r MAS	# OE C	HOE IC CON	ethanol	0-14-00-14.	7.30	190936 190936 190936) lengis	Pace Project No.
311	C91-d			DATE TIME	DATE	TIME	un _	NH NH	M	10 10	3)	10 W		rap
	791-1 D-163													
2	191-d													
3	+01-1		WT G									-		
4	P-165		WT G											
2	P-173		WT G		5/3/12 09	5460				×	×			
9	P-174		WT G		01 22K/5	1040				~	*			
7	P-175		WT		5/3/22 1125	5				×	×			
. «	P-176		WT		s/4/2 10	Kods				~	×			
. 6	P-177		WT G		21 22/1/5	0221				×	×			
. 0,	P-178A		WT G		S/V/W 13	355								
-	P-178B		WT G											
12	P-179A				5/3/12	1430				×				
Additional Comments:	:S:		RELINQUISHED	ED BY / AFFILIATION	STAZZ	TIME 67.30	ACCEP	ACCEPTED BY / AFFICIATION		ACL S	23.0		1 2 SAMPLE CONDITIONS	N/A
				/		5				771016		-	N/A	
All Me	*All Metals Are Field Filtered Except Leachate	ept Leachate											N/A	la constant
				•									N/A	- County
イエられて	1 HStripe. Mag 20	9		SAMP	SAMPLER NAME AND SIGNATURE	SIGNATUR						၁.		
-[-	14 (000 00.0)	2,		PRINT	(200 Lyal	+ /*	Kenda	Merca	<		ni qm	eivec eol	bed Ca
- the	1 . 110 001	/		SIGNATI	SIGNATURE of SAMPLERS	Z.	1	DATE Signed (MM / DD / YY)	Signed (MM / I	STULY STULY	11/12	ĐΤ		269

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical "

Pace Project No. Lab I.D. DRINKING WATE N/A N/A N/A Samples Intact OTHER MCES SAMPLE CONDITIONS of Sealed Cooler e-File(ALLQ020rev.3,31Mar05))22Jun2005 N/A N/A N/A N/A Custody Page: 6 REGULATORY AGENCY L Z > |> 901 NO N/A N/A Received on L_ SCL GROUND WATER | 2 J° ni qmaT 0720 Z HO × X IN S TIME X X RCRA XX ayer 1 L LOCATION × X X 15/2 iltered (Y/N) NPDES SITE DATE XX I UST Requested Analysis: Kerk meren X X ACCEPTED BY / AFFILIATION Methanol EOSSEN Xe HOBN нсі EONH POSTH Unpreserved kechson Steve Davis # OF CONTAINERS Brad Jacobson SAMPLER NAME AND SIGNATURE COLLECTION TA 9MBT BJ9MAR 0730 TIME 1535 Oohi 0001 5440 かり 5051 221515 1020 1010 513/22 0920 TIME Sial COMPOSITE END/GRAB Pace Profile #: SIGHT STUPLE SIGNATURE of SAMPLER 5/3/22 573/2L SBILL 513/12 572/22 SIVIZ DATE DATE COLLECTED ace Quote Reference Pace Project Manager: TIME RELINQUISHED BY / AFFILIATION Invoice Information . Energy Sherco Ponds Spring Company Name: COMPOSITE START Section C DATE Lager SAMPLE TYPE 9MOD=D 8AAD=D 9 O O 9 O O O O O O O 6 Brad Jacobson Riley Jacobson TW TW TW WT M TW TW M WT LM TW MATRIX CODE Required Project Information Xcel CODE DW WW WW DE SE OF OR SE urchase Order No. roject Number Project Name: **All Metals Are Field Filtered Except Leachate PHSTOS, MHOUSE Section B MATRIX
DIRINGO WATER
WATER
WASTE WATER
PRODUCT
SCUSOLED
OUL Report To: Copy To: Duplicate NPDES Duplicate BAP2 Duplicate BAP Rinse NPDES Duplicate P3 Rinse BAP2 Rinse BAP Section D Required Client Information Rinse P3 P-179D P-180A P-180D 2 Weeks **Environmental Services** One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Brad Jacobson SAMPLE ID Xcel Energy Required Client Information: **Fax:** Requested Due Date/TAT: Additional Comments: 10ne: (612) 597-7254 Section A Company (ddress: mail To: 9 7 8 6 10 # MHTI 7 1

Appendix B

Fall 2022 Detection Monitoring Event Field Datasheets and Laboratory Reports



등	6 Client Xcel Project Sherce Ends Fall 2022 Project	ct No. 22	-06308
Description and Presampling Information	Monitoring Point ID_ f-17 La	abeled _	77
nfor	Inside Diameter 2 (inches) Key # 2101e \(\sum{Locker}	ed [Not Locked
ing	Casing Material: PVC Steel Stainless Steel		
du	Depth Measurement and Elevations (from top of well	casing)	
rese	Top of Casing Elevation	A	_Feet
nd P	Total Well Depth 5 Static water level measurement before purging (Start Depth)	46	_Feet Feet
on a	Static water level measurement at time of sampling (Final Depth)	46	Feet
iptic	Static Water Level Elevation Before Purging ~	'A	_ _Feet
escr	Purge Method Dedicated Hadder purp lea sin Pump ID	BPC-	1
الم	Date Purged 1/1/22 Water Column Time Purged 1025-11(3 One Casing Volume	13.1	7.3 Feet Gallons
Well	Pump Rate O.2 GPM / LPM Volume Purged	73	Gallons
	Date Sampled 11/1/22 Field Parameter Measure Time Sampled 1025 115 pH 7 8 (units)	Street, sections	_ ¬
	Time Sampled 11 5 pH 7 - 6 (units) Sampling Equip. μμη Spec. Cond. 34 O (μmhos/cm)	Turbidity) <u>7 . 7 (mg/l)</u> / <u>(</u>
Data			1 (20 (mV)
			r_ <i>NA</i>
Sampling	Field Measurements Temp. Corrected:	□ NA	
San	Sample for Soluble Metals Filtered in Field: Yes No Temperature Correction Factor: O-O °C	⊠ NA	
Field		mph	\
	Sample Description: Clear why no oder		
	Observations: No re		
	Time pH Specifc Conductance Temp (°C) D.O. Turbidity (μmhos/cm) (observed) (mg/l) (NTU)	Eh (mV)	Volume Purged (cumulative gal)
est		120	3.2
J uc	5 1057 7.3 340 10.2 7.7 4.1	120	6.4
zatik	to 11/3 7.9 340 10.2 7.7 4.1	120	9.6
Stabilization Test	92/1/102		
Š	5		
Sa	Samples chilled immediately after collection: Yes Other		
Form	Form Revised: 01/25/2021		
Nam	Name/Affiliation of Sampler(s):		
1.	Load Tophnisian Signature:	1111	122
L	Lead Technician Signature:Date:	1///	0



uo	Client Xcel	Proje	ect Sherce Rends	s tall 2022	Project	No. 22-	06308
esampling Information	Monitoring Point ID	P-152A			Lab	eled P	52A
for	Inside Diameter		Key# 210	Le	Locked		Not Locked
ig ge	Casing Material:	PVC	Steel	Stainless Ste	eel		
nplin	4	Depth Measuremen	t and Elevation	ns (from to	p of well c	asing)	A 1
esar			Top of Casin	g Elevation_	NA		Feet
ų.				Well Depth _		2.35	Feet
an		ater level measurement					Feet
ption	Static water i	evel measurement at tir	ne of sampling (F vel Elevation Befo				Feet
	Purge Method	Static Water Le	vei Elevation Beit	ore Furging_	Pump ID		Feet
Well Descri	Date Purged	1	= le	Mate	er Column		Feet
lell	Time Purged			One Casin	The state of the s		Gallons
	Pump Rate		GPM / LPM	Volum	ne Purged _		Gallons
MA	Date Sampled	1/3/22	Field F	Parameter	Measurem	nents of S	Sample
	Time Sampled						STATE OF THE PARTY
186	Sampling Equip.		Spec. Cond.		(units) (umhos/cm)(1/3	Purbidity	(NTU)
Data	Meter ID		Temp. Observed		(°C)	Eh	
ng B	Analyzed by	V	Temp. Corrected	((°C)	Other_	NA
=		rements Temp. Correcte	V V	Yes	☐ No	□ NA	
Sam		ole Metals Filtered in Fie		Yes	☐ No	□ NA	10
Field		erature Correction Fact	or: 70.5				
ii.	Sample Description:	Ouring Sampling:	•				
		* Top of Bladder	lund @ 39.3	36 - DR	Y Reggo	ed Bleede	18/ 4 gat
	water Level = 4	0.16 - NO SAM	fic		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		101
The same	Time pH	Specifc Conductance	Temp (°C)	D.O.	Turbidity	Eh	Volume Purged
-	Time (units)	(µmhos/cm)	(observed)	(mg/l)	(NTU)	(mV)	(cumulative gal)
Tes				4			
Stabilization Test				2 1			
lizat				RU)			
tabi			4	11312			
0							
S	amples chilled immediately	after collection:	Yes Oth	ner			
Form	Revised: 01/25/2021	71.1	1 2 .	\bigcirc			
Nam	e/Affiliation of Sampler(s):	- filey lace	spare	Jack	2		
L	ead Technician Signature:	Elley	71		Date:	11/3/2-	7
		111			. 37.10	11/-10	



He He	Client Xcel Project Sherce Ends Fall 2022 Project No. 22-06308									
esampling Information	Monitoring Point ID P-158 Labeled 812 967									
ıforı	Inside Diameter 2 (inches) Key # 210Le \(\sum{(Locked}\) \(\sum{Not Locked}\)									
ng h	Casing Material: Steel Stainless Steel									
mpli	Depth Measurement and Elevations (from top of well casing)									
resa	Top of Casing ElevationFeet									
id Pri	Total Well Depth 49.16 Feet									
n and	Static water level measurement before purging (Start Depth) 4 (\$3 Feet Static water level measurement at time of sampling (Final Depth) 4 (\$3 Feet									
iptio	Static Water Level Elevation Before Purging VA Feet									
Description	Purge Method Racded Pladder pump Pump ID BPC-1									
	Date Purged 1/112 Water Column 7.33 Feet Time Purged 0935 - 0953 One Casing Volume 1.19 Gallons									
Well	Time Purged 0135 - 0753 One Casing Volume 1.19 Gallons Pump Rate 02 GPM LPM Volume Purged 3.6 Gallons									
	Date Sampled 1/// Field Parameter Measurements of Sample									
	Time Sampled 0955 Sampling Equip. NWM Spec. Cond. S25 (units) D.O 9.1 (mg/l) Spec. Cond. S25 (units) Turbidity 0.31 (NTU)									
Data	Sampling Equip. My Spec. Cond. Strubbling Turbidity 0.31 (NTU) Meter ID MP S- 8 Temp. Observed 10.3 (c) 12 12 12 12 12 12 12 12									
ling Da	Analyzed by Syn Temp. Corrected 10.3 (°c) Other NA									
nildı	Field Measurements Temp. Corrected: \(\sum \frac{1}{2} \text{Yes} \) No \(\sum \text{NA} \)									
Sampli	Sample for Soluble Metals Filtered in Field:									
Field	Temperature Correction Factor: 0.0 °C Weather Conditions During Sampling: 434 (smm, wind NO)mpn									
11.	Sample Description: (Lev / M) Odur									
	Observations: More									
	Time pH Specifc Conductance Temp (°C) D.O. Turbidity Eh Volume Purged									
st	(units) (μmhos/cm) (observed) (mg/l) (NTU) (mV) (cumulative gal) 0941 7.5 525 10.3 9.1 0.81 13 0 1.2									
n Test	0947 7.5 525 10.3 9.1 0.81 130 2.4									
Stabilization	0953 7.5 528 10.3 9.1 0.81 130 3.6									
billi	Sym Illia									
Sta	11/1/12									
Sa	Imples chilled immediately after collection: Yes Other									
Form	Revised: 01/25/2021									
Nam	e/Affiliation of Sampler(s):									
Le	ead Technician Signature. Date: 1/1/22									



uo	Client X	cel		Project	Sherco Pands	Fall 202	2_Project	No. 22.	-06308
mati	Monitor	ing Point ID_	7-17-3				Labe	eled 0	44707
nfor	Insid	le Diameter _	7	(inches)	Key# 2101	e	_\(\)\(\)\(\)\(\)Locked		Not Locked
ing l	Casii	ng Material:	PVC	☐ Ste	eel 🔲	Stainless S	teel		
Presampling Information	W To See	D	epth Measu	rement a	nd Elevation	,	•	asing)	
resa					Top of Casin	g Elevation Well Depth	1		Feet
and F		Static wat	er level meası	rement be	fore purging (S			5	Feet
on a	S	tatic water lev			of sampling (F			5	Feet
Well Description	Duras M	othed Day	Static W	Vater Level Andd 2 p	Elevation Befo	ore Purging		·Λ(-1	Feet
Desc	Purge Mo Date Pu	1.4	1/22	acces - p	ing	Wa	Pump ID <u>L</u> ter Column		Feet
Vell		urged 095	0-1008				ing Volume _	1.07	Gallons
^	Pump	Rate ().	}		GPM / LPM	Volu	me Purged 🧾	3.6	Gallons
	Da	te Sampled _	1013/122		Field F	aramete	r Measurem	ents of	Sample
		-	1010		рН	7.5	_(units)		<u>8,3</u> (mg/l)
ia i	Samı	oling Equip. Meter ID		-	Spec. Cond. mp. Observed	P A			(NTU) 152 (mV)
j Data	ļ	Analyzed by	111-0		mp. Corrected	100	(°C) _(°C)	Other	
Field Sampling			ments Temp.	Corrected:	X	Yes	No _ [NA	
Sam	Sam		e Metals Filter			Yes	□ No I	MA ⊠	
ield	Temperature Correction Factor: 400 °C Weather Conditions During Sampling: 444 & Sunny, wind NECO Impar								
ш	Sample Description: (Cor w In odor								
	Ob	servations:	none	V -					
									-
	Time	pH (units)	Specifc Cond		Temp (°C) (observed)	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	Volume Purged (cumulative gal)
est	0956	7.6	490		10.7	8.4	0.75	150	1.2
on T	1002	7.5	500		10.3	8.3	0:75	151	2.4
izati	1008	7.5	500		10 8	8.3	0.75	52	3.6
Stabilization Test									,
S				Ser	(0/3)12	7.			
		70			(0/3/12				
	mples chilled	l immediately a	fter collection:		Yes Oth	er			
	e/Affiliation of		Serge	Revi	4				
i vali li	Siramiation of	Camplet(s)	6	/				10101	100
Le	ead Technicia	an Signature:	La	U			Date:	10/31	12/1



E	Client Xcel	_ Project <u>≤</u>	nerce Pends	Fall 2022	Projec	t No. 22	-06308
Well Description and Presampling Information	Monitoring Point ID P-174				La	beled O	44706
nfor	Inside Diameter 2	(inches) Ke	ey#_210L	e	Locked	u = 1 🖸	Not Locked
ing l	Casing Material: 😾 PVC	Steel		Stainless Ste	eel		
ldmi	Depth Measu	rement and	l Elevation	s (from to	p of well	casing)	
resa		T	op of Casing		N	+	Feet
d P	Static water level meas	rement befor		Well Depth _	76.2	11	Feet Feet
ın ar	Static water level measurem		A real real real real real real real real			6	Feet
iptic	Static V	Vater Level Ele		_	NI	7	Feet
escr		dder Puny	0		Pump ID_	BPC-	1
Ğ	Date Purged 1020 -1015				er Column _	6.01	Feet
We	Time Purged 1030-1045 Pump Rate 0.2		PM) LPM	One Casin	ig volume _ ne Purged	0.92	Gallons Gallons
					-	<u> </u>	
	Date Sampled 10/3/12	_	Committee of the Commit	arameter			
	Time Sampled 1050	- "		1.4	units)		8.9 (mg/l)
百	Sampling Equip. Many Meter ID Mass - 9		Spec. Cond. o. Observed	110	μmhos/cm) (°C)	Turbidity	$\frac{1.2}{151} (NTU) $ (mV)
y Da	Analyzed by Sign		. Corrected	110	(°C)		- WA
Field Sampling Data	Field Measurements Temp.			Yes	☐ No	□ NA	
ami	Sample for Soluble Metals Filter			Yes	☐ No	NA ⊠	
eld S	Temperature Correct		°C	1	. 61		
Ü	Weather Conditions During Sampling Sample Description:		SUAMY,	wind U	E (0)	mph	
	Observations: None	ino oac	20				
						-	
	Time pH Specifc Cond	ductance	Temp (°C)	D.O.	Turbidity	Eh	Volume Purged
	(units) (µmhos/	The state of the s	(observed)	(mg/l)	(NTU)	(mV)	(cumulative gal)
Stabilization Test	1035 7.4 150		1.3	8.9	1,2	151	
tion	1040 74 160		11.3	5.9	1.2	151	2
liza	1045 7.4 160		11.3	8.9	1.2	151	3
tab							
(A)			Sin	10 131122			
	amples chilled immediately after collection:	Ĭ <u></u> Ye	es Othe	er			
	Revised: 01/25/2021	bu					
Vam	e/Affiliation of Sampler(s):	Run	3		-		
Le	ead Technician Signature:	_ //			Date:	1171	31/20
_,	- Signaturo	U			Date.	001	21/6



E	Client Xcel	Project Shere	. Kinds tall 2012	Project No	. 22-06308		
Well Description and Presampling Information	Monitoring Point ID P-175			Labeled	944705		
for	Inside Diameter 2	(inches) Key#	210le	Locked	Not Locked		
ng I	Casing Material: PVC	Steel	Stainless St	teel			
ildu	. Depth Measu	rement and Ele	vations (from to	op of well casi	ng)		
esar		Top o	f Casing Elevation	NA	Feet		
1 Pr			Total Well Depth		Feet		
and	Static water level measu				Feet		
tion	Static water level measurement	and the second of the second of the second		76.65 NA	Feet		
crip		addu pmp	on Before Purging		PC SIL		
Des	Date Purged 10/31/22	sacce period	10/3/122 Wat	Pump ID 13 er Column 35	-46 Feet		
Vell	Time Purged 1105 - 1120				.89 Gallons		
٥	Pump Rate	(GPM/I	LPM Volu	me Purged	Gallons Gallons		
	Date Sampled 10/31/22		Field Parameter	Measuremen	its of Sample		
	Time Sampled 1125	.,	<u></u>	(units)	D.O 7.3 (mg/l)		
	Sampling Equip.	Spec.	4	War day and the same of the sa	rbidity 1.9 (NTU)		
Data	Meter ID MPS &	_ Temp. Ob	served 12.5	(°C)	Eh/44 (mV)		
	Analyzed by SOL	Temp. Co	rected 12.5	(°C)	Other NA		
ıplir	Field Measurements Temp.		⊠∠Yes	□ No □	NA		
Field Measurements Temp. Corrected: Sample for Soluble Metals Filtered in Field: Temperature Correction Factor: Weather Conditions During Sampling:							
eld	Weather Conditions During Sampling	1-1		at alco	Lach		
in.	Sample Description: Clear wh		Snry (W)	NO NEW	Two		
	Observations: Nov	,					
	Time pH Specifc Cond	uctance Tem	o (°C) D.O.	Turbidity E	Eh Volume Purged		
44	TITTE (units) (μmhos/o		rved) (mg/l)	(NTU) (n	nV) (cumulative gal)		
Test	1110 7.6 550	12.	5 7.8		4		
ion	1115 7.6 550	12.	5 7.8	1.9 14	4 2		
Stabilization	1120 7.6 550	12.	5 7.8	1.9 14	4 3		
tabi		· ·	1 /1/21				
S			10/3/18				
Sa	amples chilled immediately after collection:	Yes	Other				
Form	Revised: 01/25/2021	V 1100					
Nam	e/Affiliation of Sampler(s):	Romp					
	5	1			10/3/122		
Le	ead Technician Signature:			Date:/	0/2/10		



동	Client Xcel Project Sheres Ends tall 2022 Project No. 22-06308								
Information	Monitoring Point ID P-176 Labeled 944703								
nfor	Inside Diameter (inches) Key #								
ing	Casing Material:								
ldm	Depth Measurement and Elevations (from top of well casing)								
resampling	Top of Casing Elevation NA Feet								
<u> </u>	Total Well Depth 94.09 Feet								
n and	Static water level measurement before purging (Start Depth) 78.22 Feet Static water level measurement at time of sampling (Final Depth) 78.22 Feet								
otio	Static Water Level Elevation Before Purging NA Feet								
Well Description	Purge Method Dedicated bladeler ymp Pump ID Bec 2								
Dei	Date Purged 10/31(22 Water Column 5-96 Feet								
Well	Time Purged 1140 - 1155 One Casing Volume 19.97 Gallons								
	Pump Rate								
	Date Sampled 10/3/122 Field Parameter Measurements of Sample								
	Time Sampled 1200 pH 7.5 (units) D.O 9.5 (mg/l)								
	Sampling Equip. O Spec. Cond. 470 (μmhos/cm) Turbidity 3 4 (ΝΤυ)								
Data	Meter ID MP5 - 8 Temp. Observed 11.7 (°C) Eh 14 (mV)								
l gui	Analyzed by SM Temp. Corrected 11.7 (°C) Other M4								
mpli	Field Measurements Temp. Corrected:								
Sal	Sample for Soluble Metals Filtered in Field:								
Field Sampl	Weather Conditions During Sampling: 50° fd sunny, und NE @ 3mph								
	Sample Description: (Lear Wino odor								
	Observations: 1000								
650	Time pH Specifc Conductance Temp (°C) D.O. Turbidity Eh Volume Purged								
#	(units) (μmnos/cm) (observed) (mg/l) (NTU) (mV) (cumulative gal)								
Test	1145 7.5 470 11.7 9.5 3.4 141								
Stabilization	1150 1.5 4.6 11.7 9.5 3.4 191 2								
ilize	1155 7.5 470 11.7 9.5 3.4 141 3								
Stab	560-10BU								
	10131122								
Sa	amples chilled immediately after collection: Yes Other								
Form	Revised: 01/25/2021								
Nam	ne/Affiliation of Sampler(s): Second Roths								
Le	ead Technician Signature:								



E	Client Xcel Project Sherce Earls Fall 2022 Project No. 22-06308									
and Presampling Information	Monitoring Point ID P-177 Labeled 844704									
ıforı	Inside Diameter									
ıl Bu	Casing Material: Steel Stainless Steel									
mpli	Depth Measurement and Elevations (from top of well casing)									
esau	Top of Casing Elevation Feet									
d Pr	Total Well Depth 40.23 Feet									
	Static water level measurement before purging (Start Depth) Feet Static water level measurement at time of sampling (Final Depth)									
otio	Static Water level Measurement at time of sampling (Timal Depth)									
ell Description	Purge Method Dedicated Bladde pump Pump ID Bpc-2									
l De	Date Purged Water Column 5.02 Feet									
Wei	Time Purged 0950 - 0905 One Casing Volume 0.82 Gallons									
	Pump Rate GPM LPM Volume Purged Gallons									
	Date Sampled									
	Time Sampled 8910 pH 17-3 (units) D.O 83 (mg/l)									
ø	Sampling Equip. My Spec. Cond. 450 (μmhos/cm) Turbidity 2.1 (NTU)									
Data	Meter ID $\frac{Mp3-6}{}$ Temp. Observed $\frac{(0.7-(^{\circ}C))}{}$ Eh $\frac{127-(^{m}V)}{}$ Analyzed by $\frac{(^{\circ}C)}{}$ Temp. Corrected $\frac{(^{\circ}C)}{}$ Other $\frac{1}{N}$									
ling	Analyzed by XOn Temp. Corrected (0, 7 (°C) Other M4 Field Measurements Temp. Corrected: XYes No NA									
Field Samp	Sample for Soluble Metals Filtered in Field: Yes No NA									
SPI	Temperature Correction Factor: 0.0 °C									
Fie										
	Sample Description: Cler w/ My odus									
	Observations: * Dup Collected New, * Kinst collected on 1915									
	Time pH Specifc Conductance Temp (°C) D.O. Turbidity Eh Volume Purged (units) (μmhos/cm) (observed) (mg/l) (NTU) (mV) (cumulative gal)									
Fest	0955 7.2 440 10.7 8.3 2.1 127 1									
uo	0900 7.3 450 (0,7 8.3 2.1 127 2									
izati	0905 7.3 450 10.7 8.3 2.1 127 3									
Stabilization Test	San IHHUL									
Ø										
Sa	amples chilled immediately after collection: Yes Other									
Form	Revised: 01/25/2021									
Nam	ne/Affiliation of Sampler(s):									
1	Lead Technician Signature: 2 Date: //// 22									
L	Lead Technician Signature:Date:									



E	Client Xce	Project	Sheres lends	, tall 2023	Project	t No. 22	-06308
Information	Monitoring Point ID	P-178A			La	beled P	-178A
nfor	Inside Diameter	7 (inches)	Key# 210	æ	Locked		Not Locked
esampling I	Casing Material:	PVC Ste	eel 🗌	Stainless St	eel		
HQW.	De	epth Measurement a	nd Elevation	ns (from to	p of well	casing)	
esa			Top of Casin				Feet
ī o	Ct-1:t-			Well Depth			Feet
n and		r level measurement be el measurement at time				57	Feet Feet
ption	Ctatio Water leve	Ştatic Water Level			N		Feet
Descri	Purge Method Blads	Ser Punp		3 3	Pump ID	BPC-	
		122	-	Wat	er Column		
Well		00-1515			ng Volume		
	Pump Rate	0.2	GPM/LPM	Volur	me Purged	3.0	Gallons
	Date Sampled	11/2/22	Field F	Parameter	Measure	ments of	Sample
	Time Sampled	1520 "	pН	7.6	(units)	D.O	8. 4 (mg/l)
	Sampling Equip.	ing + litter	Spec. Cond.	1036	(μmhos/cm)	Turbidity	7. 6 (NTU)
Data			mp. Observed			Eh	_52_(mV)
9	Analyzed by	fw Te	mp. Corrected	11.8	(°C)	Other	NA
du		nents Temp. Corrected:		Yes	☐ No	☐ NA	
Field Measurements Temp. Corrected: Sample for Soluble Metals Filtered in Field: Temperature Correction Factor: S'Yes No NA NA Temperature Correction Factor: O'C							
Field	Weather Conditions Duri	ing Sampling: 736	Signa	5070	MOH		
1	Sample Description:	Leer noviety	300(119	0 0 0			
	Observations:						
						2404	
	Time pH	Specifc Conductance	Temp (°C)	D.O.	Turbidity	Eh	Volume Purged
	(units)	(µmhos/cm)	(observed)	(mg/l)	(NTU)	(mV)	(cumulative gal)
est	1505 7:6	1020	11.6	8.6	2.7	51	1.0
	1510 7.Le	1030	11.6	8.5	2.7	57	2.0
Zat	1515 7.4	1030	11.5	8.4	2.6	52	3.0
Stabilization				per			
Ø				112/22			
S	amples chilled immediately af	ter collection:	Yes Oth	ner			
	Revised: 01/25/2021	11		0			1-11-
am	ne/Affiliation of Sampler(s):	leley chook	Sen	la	el		
1	ead Technician Signature:	Willes A	\wedge		Date:	11/2	172
-		The test of the te		-	Date.	4	





05 December 2022

Eric Ealy

Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis, MN 55401

RE: Sherco BAP2 CCR

Enclosed are the results of analyses for samples received by the laboratory on 11/01/2022 12:50-11/04/2022 05:30. If you have any questions concerning this report, please feel free to contact me.

CC:

I certify that this analysis report was prepared under my direction or supervision under a system designed to assure that qualified personnel analyzed the submitted samples. All protocols for analysis were followed as required by Minnesota Rules and the Applicable Management Plan.

Sincerely,

Steve Davis

Project Manager



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sample Qualifier	Laboratory ID	Matrix	Sampled Received
P-17		MHK0004-02	Water	11/01/2022 11:15 11/01/2022 12:50
P-158		MHK0004-13	Water	11/01/2022 9:55 11/01/2022 12:50
P-173		MHK0004-14	Water	10/31/2022 10:10 11/01/2022 12:50
P-174		MHK0004-15	Water	10/31/2022 10:50 11/01/2022 12:50
P-175		MHK0004-16	Water	10/31/2022 11:25 11/01/2022 12:50
P-176		MHK0004-17	Water	10/31/2022 12:00 11/01/2022 12:50
P-177		MHK0004-18	Water	11/01/2022 9:10 11/01/2022 12:50
Duplicate CCR-BAP2		MHK0004-25	Water	11/01/2022 9:10 11/01/2022 12:50
Rinse CCR-BAP2		MHK0004-26	Water	11/01/2022 9:15 11/01/2022 12:50
P-178A		MHK0019-20	Water	11/02/2022 15:20 11/04/2022 5:30



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

P-17 MHK0004-02 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	ohy									
Chloride	14.6	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 12:00	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 12:00	EPA 300.0	CRL
Sulfate	16.2	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 12:00	EPA 300.0	CRL
Wet Chemistry										
рН	7.85		pH Units	M_TTT	1	BHK0038	11/2/22 6:59	11/2/22 8:00	SM 4500-H+ B	CRL
Total Dissolved Solids	254	25.0	mg/L		1	BHK0037	11/2/22 9:20	11/2/22 9:20	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHK0036	11/2/22 7:20	11/2/22 7:20	SM 2540D	HSD
Total Metals by ICP										
Boron	< 0.0500	0.0500	mg/L	•	1	BHK0192	11/9/22 11:15	11/10/22 15:13	EPA 200.7	HRD
Calcium	60.2	1.50	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 15:12	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

P-158 MHK0004-13 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	ohy									
Chloride	4.77	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 17:31	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 17:31	EPA 300.0	CRL
Sulfate	119	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 17:31	EPA 300.0	CRL
Wet Chemistry										
pH	7.71		pH Units	M_TTT	1	BHK0038	11/2/22 6:59	11/2/22 9:17	SM 4500-H+ B	CRL
Total Dissolved Solids	434	25.0	mg/L		1	BHK0044	11/3/22 9:06	11/3/22 9:06	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHK0043	11/3/22 7:03	11/3/22 7:03	SM 2540D	HSD
Total Metals by ICP										
Boron	0.658	0.0500	mg/L	•	1	BHK0192	11/9/22 11:15	11/10/22 13:48	EPA 200.7	HRD
Calcium	97.3	1.50	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 13:47	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

P-173 MHK0004-14 (Water) - Chain of Custody Number: Pace

Analysis	.	Reporting	l locks	Analyte	Dilution			A made mand		Analyat
Analyte	Result	Limit	Units	Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	hy									
Chloride	7.01	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 17:51	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 17:51	EPA 300.0	CRL
Sulfate	26.1	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 17:51	EPA 300.0	CRL
Wet Chemistry										
pH	7.73		pH Units	M_TTT	1	BHK0038	11/2/22 6:59	11/2/22 9:21	SM 4500-H+ B	CRL
Total Dissolved Solids	320	25.0	mg/L		1	BHK0044	11/3/22 9:06	11/3/22 9:06	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHK0043	11/3/22 7:03	11/3/22 7:03	SM 2540D	HSD
Total Metals by ICP										
Boron	0.206	0.0500	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 13:52	EPA 200.7	HRD
Calcium	78.5	1.50	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 13:51	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

P-174 MHK0004-15 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutior	ı Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	3.31	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 18:12	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 18:12	EPA 300.0	CRL
Sulfate	56.5	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 18:12	EPA 300.0	CRL
Wet Chemistry										
pH	7.70		pH Units	M_TTT	1	BHK0038	11/2/22 6:59	11/2/22 9:24	SM 4500-H+ B	CRL
Total Dissolved Solids	438	25.0	mg/L		1	BHK0044	11/3/22 9:06	11/3/22 9:06	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHK0043	11/3/22 7:03	11/3/22 7:03	SM 2540D	HSD
Total Metals by ICP										
Boron	0.461	0.0500	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 13:56	EPA 200.7	HRD
Calcium	103	1.50	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 13:55	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

P-175 MHK0004-16 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	ı Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatogra	phy									
Chloride	8.07	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 18:33	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 18:33	EPA 300.0	CRL
Sulfate	113	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 18:33	EPA 300.0	CRL
Wet Chemistry										
рН	7.78		pH Units	M_TTT	1	BHK0038	11/2/22 6:59	11/2/22 9:28	SM 4500-H+ B	CRL
Total Dissolved Solids	394	25.0	mg/L		1	BHK0044	11/3/22 9:06	11/3/22 9:06	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHK0043	11/3/22 7:03	11/3/22 7:03	SM 2540D	HSD
Total Metals by ICP										
Boron	0.355	0.0500	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 14:00	EPA 200.7	HRD
Calcium	101	1.50	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 13:59	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

P-176 MHK0004-17 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	2.79	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 18:53	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 18:53	EPA 300.0	CRL
Sulfate	41.7	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 18:53	EPA 300.0	CRL
Wet Chemistry										
pH	7.79		pH Units	M_TTT	1	BHK0038	11/2/22 6:59	11/2/22 9:32	SM 4500-H+ B	CRL
Total Dissolved Solids	322	25.0	mg/L		1	BHK0044	11/3/22 9:06	11/3/22 9:06	SM 2540C	HSD
Total Suspended Solids	5.60	5.00	mg/L		1	BHK0043	11/3/22 7:03	11/3/22 7:03	SM 2540D	HSD
Total Metals by ICP										
Boron	0.346	0.0500	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 14:04	EPA 200.7	HRD
Calcium	74.3	1.50	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 14:03	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

P-177 MHK0004-18 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	ohy									
Chloride	< 1.00	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 19:14	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 19:14	EPA 300.0	CRL
Sulfate	< 1.00	1.00	mg/L		1	BHK0039	11/2/22 7:20	11/2/22 19:14	EPA 300.0	CRL
Wet Chemistry										
рН	6.15		pH Units	M_TTT	1	BHK0038	11/2/22 6:59	11/2/22 9:35	SM 4500-H+ B	CRL
Total Dissolved Solids	< 25.0	25.0	mg/L	M_ES	1	BHK0044	11/3/22 9:06	11/3/22 9:06	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHK0043	11/3/22 7:03	11/3/22 7:03	SM 2540D	HSD
Total Metals by ICP										
Boron	< 0.0500	0.0500	mg/L	•	1	BHK0192	11/9/22 11:15	11/10/22 14:15	EPA 200.7	HRD
Calcium	< 1.50	1.50	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 14:14	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

Duplicate CCR-BAP2 MHK0004-25 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	hy									
Chloride	2.72	1.00	mg/L		1	BHK0071	11/4/22 7:24	11/4/22 13:12	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHK0071	11/4/22 7:24	11/4/22 13:12	EPA 300.0	CRL
Sulfate	16.3	1.00	mg/L		1	BHK0071	11/4/22 7:24	11/4/22 13:12	EPA 300.0	CRL
Wet Chemistry										
pH	7.84		pH Units	M_TTT	1	BHK0038	11/2/22 6:59	11/2/22 10:20	SM 4500-H+ B	CRL
Total Dissolved Solids	282	25.0	mg/L		1	BHK0062	11/5/22 9:19	11/5/22 9:19	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHK0061	11/4/22 7:26	11/4/22 7:26	SM 2540D	HSD
Total Metals by ICP										
Boron	0.101	0.0500	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 14:23	EPA 200.7	HRD
Calcium	79.2	1.50	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 14:22	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

Rinse CCR-BAP2 MHK0004-26 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutior	ı Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	3.06	1.00	mg/L		1	BHK0071	11/4/22 7:24	11/4/22 13:32	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHK0071	11/4/22 7:24	11/4/22 13:32	EPA 300.0	CRL
Sulfate	17.5	1.00	mg/L		1	BHK0071	11/4/22 7:24	11/4/22 13:32	EPA 300.0	CRL
Wet Chemistry										
pH	7.87		pH Units	M_TTT	1	BHK0038	11/2/22 6:59	11/2/22 10:24	SM 4500-H+ B	CRL
Total Dissolved Solids	306	25.0	mg/L		1	BHK0062	11/5/22 9:19	11/5/22 9:19	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHK0061	11/4/22 7:26	11/4/22 7:26	SM 2540D	HSD
Total Metals by ICP										
Boron	0.101	0.0500	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 13:32	EPA 200.7	HRD
Calcium	79.9	1.50	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 13:31	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

P-178A MHK0019-20 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatogra	phy									
Chloride	6.93	1.00	mg/L		1	BHK0091	11/7/22 6:45	11/7/22 13:32	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BHK0091	11/7/22 6:45	11/7/22 13:32	EPA 300.0	CRL
Sulfate	65.6	1.00	mg/L		1	BHK0091	11/7/22 6:45	11/7/22 13:32	EPA 300.0	CRL
Wet Chemistry										
pH	7.93		pH Units	M_TTT	1	BHK0069	11/4/22 6:35	11/4/22 10:32	SM 4500-H+ B	CRL
Total Dissolved Solids	314	25.0	mg/L		1	BHK0078	11/5/22 9:36	11/5/22 9:36	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_ES	1	BHK0077	11/5/22 7:08	11/5/22 7:08	SM 2540D	HSD
Total Metals by ICP										
Boron	0.151	0.0500	mg/L	•	1	BHK0192	11/9/22 11:15	11/10/22 14:35	EPA 200.7	HRD
Calcium	49.3	1.50	mg/L		1	BHK0192	11/9/22 11:15	11/10/22 14:34	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHK0039 - Wet Prep										
Blank (BHK0039-BLK1)				Prepared	& Analyze	d: 11/02/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
Blank (BHK0039-BLK2)				Prepared	& Analyze	d: 11/02/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
LCS (BHK0039-BS1)				Prepared	& Analyze	d: 11/02/2	022			
Chloride	24.866	1.00	mg/L	25.000		99.5	90-110			
Fluoride	2.5360	0.750	mg/L	2.5000		101	90-110			
Sulfate	24.678	1.00	mg/L	25.000		98.7	90-110			
LCS (BHK0039-BS2)				Prepared	& Analyze	d: 11/02/2	022			
Chloride	24.888	1.00	mg/L	25.000		99.6	90-110			
Fluoride	2.5250	0.750	mg/L	2.5000		101	90-110			
Sulfate	24.626	1.00	mg/L	25.000		98.5	90-110			
LCS (BHK0039-BS3)				Prepared	& Analyze	d: 11/02/2	022			
Chloride	24.869	1.00	mg/L	25.000		99.5	90-110	<u> </u>		<u> </u>
Fluoride	2.5220	0.750	mg/L	2.5000		101	90-110			
Sulfate	24.603	1.00	mg/L	25.000		98.4	90-110			
Duplicate (BHK0039-DUP1)	So	urce: MHK000	04-14	Prepared	& Analyze	d: 11/02/2	022			
Chloride	6.9940	1.00	mg/L		7.0050			0.157	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	26.102	1.00	mg/L		26.130			0.107	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
,						70.120				
Batch BHK0039 - Wet Prep										
Duplicate (BHK0039-DUP2)	Sou	rce: MHK000	04-15	Prepared	& Analyze	d: 11/02/2	022			
Chloride	3.3150	1.00	mg/L		3.3090			0.181	20	
Fluoride	<0.750	0.750	mg/L		< 0.750				20	
Sulfate	56.440	1.00	mg/L		56.479			0.0691	20	
Matrix Spike (BHK0039-MS1)	Sou	rce: MHK000	04-14	Prepared	& Analyze	d: 11/02/2	022			
Chloride	34.093	1.11	mg/L	27.778	7.0050	97.5	90-110			
Fluoride	2.8933	0.833	mg/L	2.7778	<0.833	104	90-110			
Sulfate	53.433	1.11	mg/L	27.778	26.130	98.3	90-110			
Matrix Spike (BHK0039-MS2)	Sou	rce: MHK000	04-15	Prepared	& Analyze	d: 11/02/2	022			
Chloride	31.753	1.11	mg/L	27.778	3.3090	102	90-110			
Fluoride	2.9978	0.833	mg/L	2.7778	<0.833	108	90-110			
Sulfate	84.912	1.11	mg/L	27.778	56.479	102	90-110			
Matrix Spike Dup (BHK0039-MSD1)	Sou	rce: MHK000	04-14	Prepared	& Analyze	d: 11/02/2	022			
Chloride	34.548	1.11	mg/L	27.778	7.0050	99.2	90-110	1.32	20	
Fluoride	2.9011	0.833	mg/L	2.7778	<0.833	104	90-110	0.268	20	
Sulfate	53.918	1.11	mg/L	27.778	26.130	100	90-110	0.903	20	
Matrix Spike Dup (BHK0039-MSD2)	Sou	rce: MHK000	04-15	Prepared	& Analyze	d: 11/02/2	022			
Chloride	30.897	1.11	mg/L	27.778	3.3090	99.3	90-110	2.73	20	
Fluoride	2.8822	0.833	mg/L	2.7778	<0.833	104	90-110	3.93	20	
Sulfate	84.210	1.11	mg/L	27.778	56.479	99.8	90-110	0.830	20	
Batch BHK0071 - Wet Prep										
Blank (BHK0071-BLK1)				Prepared	& Analyze	d: 11/04/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	< 0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Project Manager: Eric Ealy

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHK0071 - Wet Prep										
Blank (BHK0071-BLK2)				Prepared	& Analyze	d: 11/04/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
LCS (BHK0071-BS1)				Prepared	& Analyze	d: 11/04/2	022			
Chloride	24.700	1.00	mg/L	25.000		98.8	90-110			
Fluoride	2.4680	0.750	mg/L	2.5000		98.7	90-110			
Sulfate	24.471	1.00	mg/L	25.000		97.9	90-110			
LCS (BHK0071-BS2)				Prepared	& Analyze	d: 11/04/2	022			
Chloride	24.952	1.00	mg/L	25.000		99.8	90-110			
Fluoride	2.5270	0.750	mg/L	2.5000		101	90-110			
Sulfate	24.673	1.00	mg/L	25.000		98.7	90-110			
LCS (BHK0071-BS3)				Prepared	& Analyze	d: 11/04/2	022			
Chloride	25.064	1.00	mg/L	25.000		100	90-110			
Fluoride	2.5360	0.750	mg/L	2.5000		101	90-110			
Sulfate	24.786	1.00	mg/L	25.000		99.1	90-110			
Duplicate (BHK0071-DUP1)	Sour	ce: MHK001	9-03	Prepared	& Analyze	d: 11/04/2	022			
Chloride	1.6330	1.00	mg/L		1.6370			0.245	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	10.826	1.00	mg/L		10.998			1.58	20	
Duplicate (BHK0071-DUP2)	Sour	ce: MHK001	9-04	Prepared	& Analyze	d: 11/04/2	022			
Chloride	18.770	1.00	mg/L		18.781			0.0586	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	53.900	1.00	mg/L		53.896			0.00742	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
•							· ·			
Batch BHK0071 - Wet Prep				D	0 4 1	-l. 44/04/0	.000			
Matrix Spike (BHK0071-MS1)		ce: MHK00		Prepared						
Chloride	26.283	1.11	mg/L	27.778	1.6370	88.7	90-110			M_MS
Fluoride	2.6278	0.833	mg/L	2.7778	<0.833	94.6	90-110			
Sulfate	35.149	1.11	mg/L	27.778	10.998	86.9	90-110			M_MS
Matrix Spike (BHK0071-MS2)	Sour	ce: MHK00	19-04	Prepared	& Analyze	d: 11/04/2	022			
Chloride	47.062	1.11	mg/L	27.778	18.781	102	90-110			
Fluoride	2.9844	0.833	mg/L	2.7778	<0.833	107	90-110			
Sulfate	82.022	1.11	mg/L	27.778	53.896	101	90-110			
Matrix Spike Dup (BHK0071-MSD1)	Source: MHK0019-03 Pr			Prepared	& Analyze					
Chloride	28.394	1.11	mg/L	27.778	1.6370	96.3	90-110	7.72	20	
Fluoride	2.8344	0.833	mg/L	2.7778	<0.833	102	90-110	7.57	20	
Sulfate	37.950	1.11	mg/L	27.778	10.998	97.0	90-110	7.66	20	
Matrix Spike Dup (BHK0071-MSD2)	Sour	ce: MHK00°	19-04	Prepared	& Analyze	d: 11/04/2	022			
Chloride	46.067	1.11	mg/L	27.778	18.781	98.2	90-110	2.14	20	
Fluoride	2.8667	0.833	mg/L	2.7778	< 0.833	103	90-110	4.03	20	
Sulfate	81.162	1.11	mg/L	27.778	53.896	98.2	90-110	1.05	20	
Batch BHK0091 - Wet Prep										
Blank (BHK0091-BLK1)				Prepared	& Analyze	d: 11/07/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
Blank (BHK0091-BLK2)				Prepared	& Analyze	d: 11/07/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHK0091 - Wet Prep	_									
LCS (BHK0091-BS1)				Prepared	& Analyze	d: 11/07/2	022			
Chloride	24.983	1.00	mg/L	25.000		99.9	90-110			
Fluoride	2.5270	0.750	mg/L	2.5000		101	90-110			
Sulfate	24.829	1.00	mg/L	25.000		99.3	90-110			
LCS (BHK0091-BS2)				Prepared	& Analyze	d: 11/07/2	022			
Chloride	25.095	1.00	mg/L	25.000		100	90-110			
Fluoride	2.5660	0.750	mg/L	2.5000		103	90-110			
Sulfate	24.898	1.00	mg/L	25.000		99.6	90-110			
LCS (BHK0091-BS3)				Prepared	& Analyze	d: 11/07/2	022			
Chloride	25.087	1.00	mg/L	25.000		100	90-110			
Fluoride	2.5540	0.750	mg/L	2.5000		102	90-110			
Sulfate	24.869	1.00	mg/L	25.000		99.5	90-110			
Duplicate (BHK0091-DUP1)	Sou	urce: MHK001	19-16	Prepared	& Analyze	d: 11/07/2	022			
Chloride	2.4660	1.00	mg/L		2.8690			15.1	20	
Fluoride	<0.750	0.750	mg/L		< 0.750				20	
Sulfate	8.7300	1.00	mg/L		10.282			16.3	20	
Duplicate (BHK0091-DUP2)	Sou	urce: MHK001	19-17	Prepared	& Analyze	d: 11/07/2	022			
Chloride	27.998	1.00	mg/L		27.936			0.222	20	
Fluoride	<0.750	0.750	mg/L		0.066000				20	
Sulfate	49.544	1.00	mg/L		49.515			0.0585	20	
Matrix Spike (BHK0091-MS1)	Sou	urce: MHK001	19-16	Prepared	& Analyze	d: 11/07/2	022			
Chloride	30.017	1.11	mg/L	27.778	2.8690	97.7	90-110			
Fluoride	2.8356	0.833	mg/L	2.7778	<0.833	102	90-110			
Sulfate	37.709	1.11	mg/L	27.778	10.282	98.7	90-110			



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

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Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHK0091 - Wet Prep										
Matrix Spike (BHK0091-MS2)	Sour	ce: MHK001	19-17	Prepared	& Analyze	d: 11/07/2	022			
Chloride	56.669	1.11	mg/L	27.778	27.936	103	90-110			
Fluoride	3.0933	0.833	mg/L	2.7778	<0.833	111	90-110			M_MS
Sulfate	78.206	1.11	mg/L	27.778	49.515	103	90-110			
Matrix Spike Dup (BHK0091-MSD1)	Sour	ce: MHK001	19-16	Prepared	& Analyze	d: 11/07/2	022			
Chloride	30.430	1.11	mg/L	27.778	2.8690	99.2	90-110	1.37	20	
Fluoride	2.8700	0.833	mg/L	2.7778	<0.833	103	90-110	1.21	20	
Sulfate	38.120	1.11	mg/L	27.778	10.282	100	90-110	1.08	20	
Matrix Spike Dup (BHK0091-MSD2)	Sour	ce: MHK001	19-17	Prepared	& Analyze	d: 11/07/2	022			
Chloride	55.797	1.11	mg/L	27.778	27.936	100	90-110	1.55	20	
Fluoride	3.0033	0.833	mg/L	2.7778	<0.833	108	90-110	2.95	20	
Sulfate	77.382	1.11	mg/L	27.778	49.515	100	90-110	1.06	20	
Batch BHK0179 - Wet Prep										
Blank (BHK0179-BLK1)				Prepared	& Analyze	d: 11/09/2	022			
Chloride	<1.00	1.00	mg/L							
Fluoride	< 0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
LCS (BHK0179-BS1)				Prepared	& Analyze	d: 11/09/2	022			
Chloride	24.793	1.00	mg/L	25.000		99.2	90-110			
Fluoride	2.5680	0.750	mg/L	2.5000		103	90-110			
Sulfate	24.600	1.00	mg/L	25.000		98.4	90-110			
LCS (BHK0179-BS2)				Prepared	& Analyze	d: 11/09/2	022			
Chloride	24.784	1.00	mg/L	25.000		99.1	90-110			
Fluoride	2.5450	0.750	mg/L	2.5000		102	90-110			
Sulfate	24.393	1.00	mg/L	25.000		97.6	90-110			



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

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Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

		Reporting			Source	%REC			RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch BHK0179 - Wet Prep											
Duplicate (BHK0179-DUP1)	Sour	ce: MHK00	56-01	Prepared	& Analyze	d: 11/09/2	022				
Chloride	13.334	1.00	mg/L		13.376			0.314	20		
Fluoride	<0.750	0.750	mg/L		<0.750				20		
Sulfate	8.9550	1.00	mg/L		8.9890			0.379	20		
Matrix Spike (BHK0179-MS1)	Sour	ce: MHK00	56-01	Prepared	& Analyze	d: 11/09/2	022				
Chloride	41.143	1.11	mg/L	27.778	13.376	100	90-110				
Fluoride	2.8978	0.833	mg/L	2.7778	<0.833	104	90-110				
Sulfate	36.741	1.11	mg/L	27.778	8.9890	99.9	90-110				
Matrix Spike Dup (BHK0179-MSD1)	Sour	ce: MHK00	56-01	Prepared	& Analyze	d: 11/09/2	022				
Chloride	41.662	1.11	mg/L	27.778	13.376	102	90-110	1.25	20		
Fluoride	3.0233	0.833	mg/L	2.7778	<0.833	109	90-110	4.24	20		
Sulfate	37.219	1.11	mg/L	27.778	8.9890	102	90-110	1.29	20		



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

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Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHK0036 - Wet Prep										
Blank (BHK0036-BLK1)				Prepared	& Analyze	d: 11/02/2	022			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BHK0036-BS1)				Prepared	& Analyze	d: 11/02/2	022			
Total Suspended Solids	92.000	5.00	mg/L	106.90		86.1	70-130			
Duplicate (BHK0036-DUP1)	Sou	rce: MHK00	04-02	Prepared	& Analyze	d: 11/02/2	022			
Total Suspended Solids	<12.5	12.5	mg/L		<12.5				20	M_ES
Duplicate (BHK0036-DUP2)	Sou	rce: MHK00	04-03	Prepared	& Analyze	d: 11/02/2	022			
Total Suspended Solids	<12.5	12.5	mg/L		<12.5				20	M_ES
Batch BHK0037 - Wet Prep										
Blank (BHK0037-BLK1)				Prepared	& Analyze	d: 11/02/2	022			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BHK0037-BS1)				Prepared	& Analyze	d: 11/02/2	022			
Total Dissolved Solids	104.00	25.0	mg/L	107.80		96.5	70-130			
Duplicate (BHK0037-DUP1)	Soul	rce: MHK00	04-02	Prepared	& Analyze	d: 11/02/2	022			
Total Dissolved Solids	240.00	25.0	mg/L	•	254.00			5.67	20	
Duplicate (BHK0037-DUP2)	Sou	rce: MHK00	04-03	Prepared	& Analyze	d: 11/02/2	022			
Total Dissolved Solids	388.00	25.0	mg/L	-	390.00			0.514	20	
Batch BHK0038 - Wet Prep										
LCS (BHK0038-BS1)				Prepared	& Analyze	d: 11/02/2	022			
pH	7.1000		pH Units	7.0000	· · · · · ·	101	90-110			



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHK0038 - Wet Prep										
LCS (BHK0038-BS2)				Prepared 8	& Analyze	d: 11/02/2	022			
pH	7.1100		pH Units	7.0000		102	90-110			
Duplicate (BHK0038-DUP1)	Sour	ce: MHK000	04-01	Prepared 8	& Analyze	d: 11/02/2	022			
рН	7.6600		pH Units		7.7100			0.651	20	
Duplicate (BHK0038-DUP2)	Sour	ce: MHK000	04-11	Prepared 8	& Analyze	d: 11/02/2	022			
рН	7.7900		pH Units		7.7800			0.128	20	
Duplicate (BHK0038-DUP3)	Sour	ce: MHK000	04-21	Prepared 8	& Analyze	d: 11/02/2	022			
pH	7.8600		pH Units	·	7.8500			0.127	20	
Batch BHK0043 - Wet Prep										
Blank (BHK0043-BLK1)				Prepared 8	& Analyze	d: 11/03/2	022			
Total Suspended Solids	<5.00	5.00	mg/L		,					
LCS (BHK0043-BS1)				Prepared 8	& Analyze	d: 11/03/2	022			
Total Suspended Solids	98.000	5.00	mg/L	106.90	•	91.7	70-130			
Duplicate (BHK0043-DUP1)	Sour	ce: MHK000	04-13	Prepared 8	& Analyze	d: 11/03/2	022			
Total Suspended Solids	<12.5	12.5	mg/L		<12.5				20	M_ES
Duplicate (BHK0043-DUP2)	Sour	ce: MHK000	04-14	Prepared 8	& Analyze	d: 11/03/2	022			
Total Suspended Solids	<12.5	12.5	mg/L	-	0.60000				20	M_ES
Batch BHK0044 - Wet Prep										
Blank (BHK0044-BLK1)				Prepared 8	& Analyze	d: 11/03/2	022			
Total Dissolved Solids	<25.0	25.0	mg/L							



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	resuit	Liiiit	Office	Level	rtesuit	7011120	Liiillo	TAI D	LIIIII	140163
Batch BHK0044 - Wet Prep										
LCS (BHK0044-BS1)				Prepared	& Analyze	d: 11/03/2	022			
Total Dissolved Solids	118.00	25.0	mg/L	107.80		109	70-130			
Duplicate (BHK0044-DUP1)	Sour	rce: MHK00	04-13	Prepared	& Analyze	d: 11/03/2	022			
Total Dissolved Solids	424.00	25.0	mg/L		434.00			2.33	20	
Duplicate (BHK0044-DUP2)	Sour	rce: MHK00	04-14	Prepared	& Analyze	d: 11/03/2	022			
Total Dissolved Solids	324.00	25.0	mg/L		320.00			1.24	20	
Batch BHK0061 - Wet Prep										
Blank (BHK0061-BLK1)				Prepared	& Analyze	d: 11/04/2	022			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BHK0061-BS1)				Prepared	& Analyze	d: 11/04/2	022			
Total Suspended Solids	98.000	5.00	mg/L	106.90		91.7	70-130			
Duplicate (BHK0061-DUP1)	Sour	rce: MHK00	04-25	Prepared	& Analyze	d: 11/04/2	022			
Total Suspended Solids	1.5000	12.5	mg/L		0.80000			60.9	20	M_D-RL M_ES
Duplicate (BHK0061-DUP2)	Sour	rce: MHK00	19-02	Prepared	& Analyze	d: 11/04/2	022			
Total Suspended Solids	14.500	12.5	mg/L		12.000			18.9	20	
Batch BHK0062 - Wet Prep										
Blank (BHK0062-BLK1)				Prepared	& Analyze	d: 11/05/2	022			
Total Dissolved Solids	<25.0	25.0	mg/L							



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Manager: Eric Ealy

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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHK0062 - Wet Prep										
LCS (BHK0062-BS1)				Prepared	& Analyze	d: 11/05/2	022			
Total Dissolved Solids	110.00	25.0	mg/L	107.80		102	70-130			
Duplicate (BHK0062-DUP1)	Source	ce: MHK00	04-25	Prepared	& Analyze	d: 11/05/2	022			
Total Dissolved Solids	276.00	25.0	mg/L		282.00			2.15	20	
Duplicate (BHK0062-DUP2)	Source	ce: MHK00	19-02	Prepared	& Analyze	d: 11/05/2	022			
Total Dissolved Solids	1102.0	25.0	mg/L		1112.0			0.903	20	
Batch BHK0069 - Wet Prep										
LCS (BHK0069-BS1)				Prepared	& Analyze	d: 11/04/2	022			
рН	7.0900		pH Units	7.0000		101	90-110			
LCS (BHK0069-BS2)				Prepared	& Analyze	d: 11/04/2	022			
рН	7.1100		pH Units	7.0000		102	90-110			
Duplicate (BHK0069-DUP1)	Source	ce: MHK00	19-01	Prepared	& Analyze	d: 11/04/2	022			
рН	7.4900		pH Units		7.5100			0.267	20	
Duplicate (BHK0069-DUP2)	Source	ce: MHK00	19-11	Prepared	& Analyze	d: 11/04/2	022			
рН	7.7200		pH Units	•	7.7400			0.259	20	
Duplicate (BHK0069-DUP3)	Source	ce: MHK00	19-21	Prepared	& Analyze	d: 11/04/2	022			
рН	7.6100		pH Units		7.6300			0.262	20	
Batch BHK0077 - Wet Prep										
Blank (BHK0077-BLK1)		•		Prepared	& Analyze	d: 11/05/2	022			
Total Suspended Solids	<5.00	5.00	mg/L	•						



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

12/05/2022 11:16

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHK0077 - Wet Prep										
LCS (BHK0077-BS1)				Prepared	& Analyze	d: 11/05/2	022			
Total Suspended Solids	92.000	5.00	mg/L	106.90		86.1	70-130			
Duplicate (BHK0077-DUP1)	Sour	ce: MHK00	19-12	Prepared	& Analyze	d: 11/05/2	022			
Total Suspended Solids	372.00	25.0	mg/L		372.00			0.00	20	
Duplicate (BHK0077-DUP2)	Soui	ce: MHK00	19-13	Prepared	& Analyze	d: 11/05/2	022			
Total Suspended Solids	297.33	16.7	mg/L		290.00			2.50	20	
Batch BHK0078 - Wet Prep										
Blank (BHK0078-BLK1)				Prepared	& Analyze	d: 11/05/2	022			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BHK0078-BS1)				Prepared	& Analyze	d: 11/05/2	022			
Total Dissolved Solids	76.000	25.0	mg/L	107.80		70.5	70-130			
Duplicate (BHK0078-DUP1)	Soui	ce: MHK00	19-12	Prepared	& Analyze	d: 11/05/2	022			
Total Dissolved Solids	626.00	25.0	mg/L		616.00			1.61	20	
Duplicate (BHK0078-DUP2)	Soui	ce: MHK00	19-13	Prepared	& Analyze	d: 11/05/2	022			
Total Dissolved Solids	402.00	25.0	mg/L	-	402.00			0.00	20	
Batch BHK0086 - Wet Prep										
LCS (BHK0086-BS1)				Prepared	& Analyze	d: 11/04/2	022			
pH	7.0900		pH Units	7.0000	-	101	90-110			



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Wet Chemistry - Quality Control

					_		0/555			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHK0086 - Wet Prep										
LCS (BHK0086-BS2)				Prepared	& Analyza	d: 11/0//2	022			
рН	7.0900		pH Units	7.0000	& AllalyZe	101	90-110			
Duplicate (BHK0086-DUP1)		ırce: MHK00	•	Prepared	& Analvze					
рН	7.6400		pH Units		7.6900			0.652	20	
Duplicate (BHK0086-DUP2)	Sou	ırce: MHK00	19-34	Prepared	& Analyze	d: 11/04/2	022			
рН	7.6400		pH Units	-	7.6400			0.00	20	
Batch BHK0087 - Wet Prep										
Blank (BHK0087-BLK1)				Prepared	& Analyze	d: 11/07/2	022			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BHK0087-BS1)				Prepared	& Analyze	d: 11/07/2	022			
Total Suspended Solids	92.000	5.00	mg/L	106.90		86.1	70-130			
Duplicate (BHK0087-DUP1)	Sou	rce: MHK00	19-24	Prepared	& Analyze	d: 11/07/2	022			
Total Suspended Solids	<12.5	12.5	mg/L		<12.5				20	M_ES
Batch BHK0088 - Wet Prep										
Blank (BHK0088-BLK1)				Prepared	& Analyze	d: 11/07/2	022			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BHK0088-BS1)				Prepared	& Analyze	d: 11/07/2	022			
Total Dissolved Solids	112.00	25.0	mg/L	107.80		104	70-130			



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

12/05/2022 11:16

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Potob BUK0000 Wet Bron										
Batch BHK0088 - Wet Prep										
Duplicate (BHK0088-DUP1)	Sou	rce: MHK001	19-24	Prepared	& Analyze	d: 11/07/2	022			
Total Dissolved Solids	452.00	25.0	mg/L		442.00			2.24	20	
Batch BHK0177 - Wet Prep										
Blank (BHK0177-BLK1)				Prepared	& Analyze	d: 11/09/2	022			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BHK0177-BS1)				Prepared	& Analyze	d: 11/09/2	022			
Total Suspended Solids	98.000	5.00	mg/L	106.90		91.7	70-130			
Duplicate (BHK0177-DUP1)	Sou	rce: MHK001	19-33	Prepared	& Analyze	d: 11/09/2	022			
Total Suspended Solids	<12.5	12.5	mg/L		0.40000				20	
Duplicate (BHK0177-DUP2)	Sou	rce: MHK00	55-02	Prepared	& Analyze	d: 11/09/2	022			
Total Suspended Solids	0.70000	5.00	mg/L		1.1000			44.4	20	M_D-RL
Batch BHK0178 - Wet Prep										
Blank (BHK0178-BLK1)				Prepared	& Analyze	d: 11/09/2	022			
Total Dissolved Solids	<25.0	25.0	mg/L	-	-					
LCS (BHK0178-BS1)				Prepared	& Analyze	d: 11/09/2	022			
Total Dissolved Solids	118.00	25.0	mg/L	107.80		109	70-130			
Duplicate (BHK0178-DUP1)	Sou	rce: MHK001	19-33	Prepared	& Analyze	d: 11/09/2	022			
Total Dissolved Solids	256.00	25.0	mg/L	-	258.00			0.778	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

414 Nicollet Mall, GO-2

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/05/2022 11:16

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BHK0192 - EPA 200.2, EPA 30										
Blank (BHK0192-BLK1)	00			Prepared:	11/09/202	2 Analyze	ad: 11/10/2	022		
Calcium	<1.50	1.50	mg/L	i icpaicu.	11/03/202	ZAHaiyZc	.u. 11/10/2	022		
Boron	<0.0500	0.0500	mg/L							
LCS (BHK0192-BS1)				Prepared:	11/09/202	2 Analyze	ed: 11/10/2	022		
Calcium	97.611	1.50	mg/L				85-115			
Boron	0.98919	0.0500	mg/L	1.0000		98.9	85-115			
Duplicate (BHK0192-DUP1)	So	urce: MHK000	04-01	Prepared:	11/09/202	2 Analyze	ed: 11/10/2	022		
Calcium	131.40	1.50	mg/L		129.37			1.56	20	
Boron	3.1603	0.0500	mg/L		3.0859			2.38	20	
Duplicate (BHK0192-DUP2)	So	urce: MHK000	04-02	Prepared:	11/09/202	2 Analyze	ed: 11/10/2	022		
Boron	0.040047	0.0500	mg/L		0.042554			6.07	20	
Calcium	60.094	1.50	mg/L		60.218			0.206	20	
Matrix Spike (BHK0192-MS1)	So	urce: MHK000	04-01	Prepared:	11/09/202	2 Analyze	ed: 11/10/2	022		
Calcium	226.71	1.50	mg/L		129.37		70-130			
Boron	4.1958	0.0500	mg/L	1.0000	3.0859	111	70-130			
Matrix Spike (BHK0192-MS2)	So	urce: MHK000	04-02	Prepared:	11/09/202	2 Analyze	ed: 11/10/2	022		
Calcium	161.97	1.50	mg/L		60.218		70-130			
Boron	0.99800	0.0500	mg/L	1.0000	0.042554	95.5	70-130			
Matrix Spike Dup (BHK0192-MSD1)	So	urce: MHK000	04-01	Prepared:	11/09/202	2 Analyze	ed: 11/10/2	022		
Boron	4.1468	0.0500	mg/L	1.0000	3.0859	106	70-130	1.17	20	
Calcium	227.86	1.50	mg/L		129.37		70-130	0.505	20	
Matrix Spike Dup (BHK0192-MSD2)	So	urce: MHK000	04-02	Prepared:	11/09/202	2 Analyze	ed: 11/10/2	022		
Calcium	161.54	1.50	mg/L		60.218		70-130	0.264	20	
Boron	0.98611	0.0500	mg/L	1.0000	0.042554	94.4	70-130	1.20	20	



Environmental Services-Water Minneapolis

414 Nicollet Mall, GO-2

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Reported:

12/05/2022 11:16

Total Metals by ICP - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BHK0197 - EPA 200.2, EPA 300)5									
Blank (BHK0197-BLK1)				Prepared	: 11/09/202	2 Analyze	ed: 11/10/2	022		
Calcium	<1.50	1.50	mg/L							
Boron	<0.0500	0.0500	mg/L							
LCS (BHK0197-BS1)				Prepared	: 11/09/202	2 Analyze	ed: 11/10/2	022		
Boron	0.95137	0.0500	mg/L	1.0000		95.1	85-115			
Calcium	101.52	1.50	mg/L	100.00		102	85-115			
Duplicate (BHK0197-DUP1)	Sou	rce: MHK001	19-31	Prepared	: 11/09/202	2 Analyze	ed: 11/10/2	022		
Boron	0.038881	0.0500	mg/L		0.039899			2.58	20	
Calcium	36.928	1.50	mg/L		36.992			0.171	20	
Matrix Spike (BHK0197-MS1)	Sou	rce: MHK001	19-31	Prepared:	: 11/09/202	2 Analyze	ed: 11/10/2	022		
Calcium	138.60	1.50	mg/L	100.00	36.992	102	70-130			
Boron	1.0052	0.0500	mg/L	1.0000	0.039899	96.5	70-130			
Matrix Spike Dup (BHK0197-MSD1)	Sou	rce: MHK001	19-31	Prepared	: 11/09/202	2 Analyze	ed: 11/10/2	022		
Boron	1.0027	0.0500	mg/L	1.0000	0.039899	96.3	70-130	0.244	20	
Calcium	136.04	1.50	mg/L	100.00	36.992	99.0	70-130	1.87	20	



Environmental Services-Water Minneapolis	Project Name/Location: Sherco BAP2 CCR	
414 Nicollet Mall, GO-2		Reported:
Minneapolis MN, 55401	Project Manager: Eric Ealy	12/05/2022 11:16

Qualifiers and Definitions

M_MS	The percent recovery and/or RPD were outside the acceptance limits for the MS/MSD due to possible matrix interference
_	and/or non-homogeneous sample matrix.

M_ES The reported value is an estimate. The amount of residue measured during analysis was outside of reference method limits.

M_E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.

M D-RL The RPD for the sample duplicate was outside of QC acceptance limits due to<RL.

M_DIL Sample was diluted. The MDL and MRL were raised due to the dilution.

Sample received at the lab outside of required hold time.

Z Non Accredited Analyte
DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

 M_TTTT

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

The Chain-of-Custody is a LEGAL DOCUMENT, All relevant fields must be completed accurately

Pace Analytical

Pace Project No. Lab I.D. DRINKING WATE OTHER Samples Intact N/A N/A OTHER MCES SAMPLE CONDITIONS Sealed Coole N/A N/A N/A N/A e-File(ALLQ020rev.3,31Mar05))22Jun2005 Custody × × REGULATORY AGENCY Received on N/A N/A N/A N/A SCI ☐ NPDES F GROUND WATER ☐ 4.3 O° ni qmeT NW NW HO 1250 NCE TIME RCRA 11/12 LOCATION 11/1/12 iltered (Y/N) SITE DATE TSU T Ripey account forma Rafus ACCEPTED BY / AFFILIATION lethanol EOSSEN HOEN IOH EONH OS2H upreserved Steve Davis # OF CONTAINERS Brad Jacobson SAMPLER NAME AND SIGNATURE СОГГЕСТІОИ TIME 1520 SIII 1530 1600 1305 100 TIME Pace Profile #: 10/3/127 15/31/22 10/3/17 10/31/22 11/1/20 11/22 DATE DATE SNATURE of SAMPLE COLLECTED Pace Quote Reference: Pace Project Manager: Me Xcel Energy Sherco Ponds Fall 22 RELINQUISHED BY / AFFILIATION TIME Invoice Information Company Name Section C SANS I DATE Address: SAMPLE TYPE
SAMD=0 O 9 0 0 O 9 O O 0 9 0 0 VIVIN'S ₩ M Riley Jacobson WT TW TW Brad Jacobson TW WT TW TW TW TW \ M I M MATRIX CODE Required Project Information Purchase Order No.: Project Number Project Name: Section B Report To: Copy To: MATRIX P-05A -1 P-01A-2 P-04A -1 P-03B P-03A P-50B P-17 P-42 P-22 P-23 P-43 P-50 **Environmental Services** 2 Weeks Required Client Inform of Stops; rutes 13 of One Character per box. (A-Z, 0-91 ,-) Sample IDs MUST BE UNIQUE Brad Jacobson SAMPLE ID Xcel Energy try massal MP-7 Required Client Information: Fax: Requested Due Date/TAT: Additional Comments: Section D hone: (612) 597-7254 mail To: Address: # M3TI

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	Project Name September S	Phone: (612) 597-7254	Fax:	Project Number	Je		Pace Project Man	ager:	Brad Jac	sobson			Č	day, b			_ 5	- E
Administration with the contraction of the contra	Required Client information with teachers of the control	Requested Due Date		Project Name:	Xcel Ener	g	Ponds Fall 22		:# e		3		Filtere	(N/A) P				
Controller Con	Consider for the continue of	Section D	Required Client Information		CODE		COL	LECTED.	T	H		reservatives	Reques	ited		1	1	
P-03A WIT O	De MUST BE UNIQUE			MATER WATER WASTE WATER FRODUCT SOLLSOLID OIL	WT W S S S S S S S S S S S S S S S S S S	BAYT 3JAN			A 9M3T 3.	LECTION				100		29-92 64-92 64-92	(NIX) OUIS	
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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical"

Pace Project No. Lab I.D. DRINKING WATER OTHER N/A N/A Samples Intact OTHER MCES SAMPLE CONDITIONS of Sealed Cooler N/A N/A N/A N/A Custody L > > REGULATORY AGENCY Page: 2 Ice NA N/A N/A N/A Received on 1 SCI GROUND WATER 43 O° ni qmaT NC MN L Ю 1250 TIME RCRA L LOCATION 111/12 iltered (Y/N) NPDES SITE DATE TSU T equested nalysis: Kies ACCEPTED BY / AFFILIATION lonsities Servener /xcc/ 192S2D3 HOEN IOH EONH + OST I te celose Jubreserved Steve Davis # OF CONTAINERS Brad Jacobson SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION 250 TIME Ley, 1350 25/22 1325 1425 1500 TIME Pace Profile #: 10/3/122 11112 10/31/22 10/3/127 DATE DATE COLLECTED Pace Quote Reference Pace Project Manager: RELINQUISHED BY / AFFILIATION TIME Invoice Information Xcel Energy Sherco Ponds Fall 22 Company Name: COMPOSITE START Section C DATE Address: RAMUITAG SAMPLE TYPE

GRAB C=COMP O O O O O O O O O O O TW Riley Jacobson TW WT TW TW **Brad Jacobson** TW TW MT WT W MT MT MATRIX CODE Seena Required Project Information: Purchase Order No.: CODE WWW. WWW. WWW. To ARR roject Number Project Name: Section B MATRIX
DIRINGING WATER
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ON Report To: Copy To: Required Client Information P-92A P-93A P-50D P-92D P-56 D-60 P-62 99-d P-88 P-89-1 P-90 P-90A Environmental Services 2 Weeks (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE ABELMS, MADOISA Brad Jacobson One Character per box. SAMPLE ID Xcel Energy Temp Moosell: MP-7 Section A Required Client Information: Fax: Requested Due Date/TAT: Additional Comments: Section D mail To: Company 10 8 7 8

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Page 32 of 53 MHK0004, MHK0019 Xcel General Report - CCR FINAL 12 05 2022 1116

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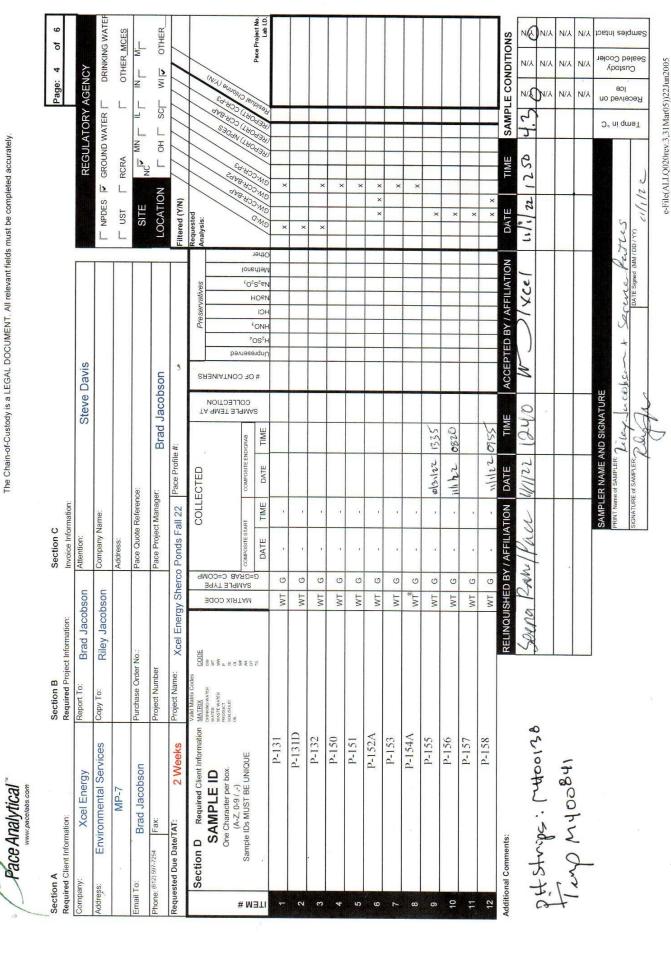
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Pace Project No. Lab I.D. DRINKING WATER NI OTHER Samples Intact OTHER MCES N/A N/A SAMPLE CONDITIONS of Sealed Cooler N/A N/A N/A L Z Custody REGULATORY AGENCY > N (NA Ice N/A N/A N/A Received on __ SCL ☐ NPDES F GROUND WATER ☐ O° ni qmeT L HO 525 TIME RCRA وحا 22/1/12 LOCATION gray Jees Dear Hoters iltered (Y/N) SITE DATE TSU T equested nalysis: 7/2 DATE Signed (MM / DD / YY) ACCEPTED BY / AFFILIATION lethanol EOSSSEV XC HOEN IOH EONH 705°H Jupreserved Steve Davis # OF CONTAINERS Brad Jacobson SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION 0521 TIME Short 1135 0151 ohs 019 大 105 1640 TIME 1705 2541 11/2/22/140 Pace Profile #: 1/2/27 2212/11 21/11 22/2/11 11/3/22 11/11/22 22/1/11 SIGNATURE of SAMPLER: 11/2/24 11/127 11/122 DATE 22/1/11 DATE COLLECTED Pace Quote Reference ace Project Manager: TIME Invoice Information Energy Sherco Ponds Fall 22 RELINQUISHED BY / AFFILIATION Company Name: Section C Attention: DATE Address: SAMPLE TYPE GRAB C=COMP 9 O 9 O O O 9 6 9 0 9 9 Riley Jacobson Brad Jacobson WT TW TW TW W W W TW TW \ M \ N M MATRIX CODE Required Project Information: Xce urchase Order No. Project Number Project Name: Section B Report To: Copy To: MATRIX pHStrps: 1 420133 @ NO SAMPLE - 165 Walth Osubmitted 11/1120 by SICR P-129 (%) P-101A P-101B P-126D P-128D P-130D 456-4 P-126 P-94A P-127 P-128 P-130 **Environmental Services** 2 Weeks (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE 20 Massi Required Client Info Brad Jacobson One Character per box. SAMPLE ID Xcel Energy 3 Required Client Information: Fax equested Due Date/TAT: Additional Comments: Section D Section A mail To: ompany: # M3TI 10

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Pace Project No. Lab I.D. DRINKING WATER OTHER samples Intact N/A N/A OTHER MCES SAMPLE CONDITIONS of Sealed Cooler N/A N/A N/A N/A Custody > × L Z REGULATORY AGENCY 90| N/A Received on __ ☐ NPDES F GROUND WATER ☐ SCL イジ O° ni qmeT MN HO 52 TIME RCRA 2 LOCATION 22 iltered (Y/N) SITE DATE UST Requested Analysis: 111 + Seren ACCEPTED BY / AFFILIATION XCE Na₂S₂O₃ IOI EONH be calase OSZH Jupreserved Steve Davis Brad Jacobson # OF CONTAINERS SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION Rlay TIME 8900 1345 0110 TIME 1035 2007 1335 21/22/21/1 Pace Profile #: 10/3/122 24/1/22 11/12 22/15/01 11/122 14/1/12 SNATURE of SAMPLER: DATE DATE COLLECTED Pace Quote Reference Pace Project Manager: TIME RELINQUISHED BY / AFFILIATION Jan & Pall Xcel Energy Sherco Ponds Fall 22 Invoice Information company Name Section C DATE Attention: Address SAMPLE TYPE G=GRAB C=COMP O O 0 0 0 O O O 0 Brad Jacobson Jacobson TW W W TW TW WT TW TW W LW. W MATRIX CODE Spana Required Project Information: Riley Jurchase Order No. Project Number Project Name: Section B Report To: Copy To: MATRIX putstrips notcois 8 leup musosu! Duplicate NPDES Duplicate BAP2 Duplicate BAP Rinse NPDES Rinse BAP2 Duplicate P3 Rinse BAP P-179D Rinse P3 P-180A P-180D Environmental Services 2 Weeks One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Required Client Infor Brad Jacobson SAMPLE ID Xcel Energy Section A Required Client Information: Fax: Requested Due Date/TAT: Additional Comments: Section D Phone: (612) 597-7254 Email To: Company Address: 8 4 6 6 7 8 10 # M3TI

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Pace Project No. Lab I.D. DRINKING WATE OTHER OTHER MCES N/A SAMPLE CONDITIONS of Sealed Cooler N/A N/A N/A N/A REGULATORY AGENCY L Custody N N M lce N/A N/A Received on ☐ NPDES F GROUND WATER ☐ SCL 40 O° ni qmeT HO 552 NC L TIME L RCRA Sobrethans LOCATION iltered (Y/N) 14/2/ SITE DATE L UST ACCEPTED BY / AFFILIATION Nethanol Na₂S₂O₃ /xcc HOEN ICI See EONH 705²H npreserved Steve Davis Brad Jacobson SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION TIME 1250 355 5550 1400 1000 TIME 11/12 11/12 22/1/17 22/h/11 11/4/22 DATE DATE COLLECTED ace Quote Reference Pace Project Manager RELINQUISHED BY / AFFILIATION TIME Invoice Information Xcel Energy Sherco Ponds Fall 22 Company Name 200 Section C Attention: DATE Address: G=GRAB C=COMP O O O O O O O 9 O O 9 SAMPLE TYPE Riley Jacobson Brad Jacobson ₩. M TW M W M LN MI WT W W \ \ **■**GOO XIRTAM Required Project Information urchase Order No. roject Number Project Name: Section B Report To: Copy To: MATRIX Duplicate NPDES **Duplicate BAP2** Duplicate BAP Rinse NPDES Rinse BAP Duplicate P3 Rinse BAP2 pt Strp 5! mto23 3 P-1807 CO81-4-C C1071-4 Environmental Services 2 Weeks One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Brad Jacobson SAMPLE ID Xcel Energy C MP-7 O Wills by ske 9 Required Client Information: Fax: Requested Due Date/TAT: Additional Comments: Section D hone; (612) 597-7254 K Section A N company: Address: Email To: # MHTI 9 1 10 11

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NATE Signed (MM / DD / YY)

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Pace Project No. Lab I.D. DRINKING WATE OTHER Samples Intact N/A N/A OTHER MCES SAMPLE CONDITIONS Sealed Coole N/A N/A N/A N/A e-File(ALLQ020rev.3,31Mar05))22Jun2005 Custody L N N REGULATORY AGENCY Received on N/A DIN N/A N/A SCI ☐ NPDES GROUND WATER ☐ 4.3 O° ni qmeT L NW HO 1250 NC T TIME RCRA 11/1/2 LOCATION 11/1/22 iltered (Y/N) SITE DATE TSU T Ripey account forma Rafus ACCEPTED BY / AFFILIATION lethanol EOSSEN HOEN IOH EONH OSEH npreserved Steve Davis # OF CONTAINERS Brad Jacobson SAMPLER NAME AND SIGNATURE COLLECTION TIME 2550 1530 1600 SIII 1305 100 TIME Pace Profile #: 10/3/127 15/31/22 10/3/17 10/31/22 11/1/20 11/22 DATE DATE SNATURE of SAMPLE COLLECTED Pace Quote Reference: Pace Project Manager: Me Xcel Energy Sherco Ponds Fall 22 RELINQUISHED BY / AFFILIATION TIME Invoice Information. Company Name Section C NOW SELECTION OF THE PERSON OF DATE Address: SAMPLE TYPE S=GRAB C=COMP O O 0 O 9 9 O O 0 O 0 0 Crown T/ Riley Jacobson WT TW TW Brad Jacobson W TW TW W TW \ M M M MATRIX CODE Required Project Information Purchase Order No.: Project Number Project Name: Section B Report To: Copy To: MATRIX P-01A-2 P-05A -1 P-04A -1 P-03A P-03B P-50B P-17 P-42 P-22 P-23 P-43 P-50 **Environmental Services** 2 Weeks Required Client Inform * Encetury: Souts For One Character per box. (A-Z, 0-91 ,-) Sample IDs MUST BE UNIQUE Brad Jacobson SAMPLE ID Xcel Energy two massel MP-7 Required Client Information: Fax: Requested Due Date/TAT: Additional Comments: Section D hone; (612) 597-7254 Email To: Address # MHL

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Pace Project No. Lab I.D. DRINKING WATER OTHER samples Intact N/A N/A OTHER MCES SAMPLE CONDITIONS of Sealed Cooler N/A N/A N/A N/A Custody L Z N N REGULATORY AGENCY 90| N/A Received on __ ☐ NPDES F GROUND WATER ☐ SCL 4.3 O° ni qmeT MN □ но 52 TIME RCRA ١ LOCATION 22 iltered (Y/N) SITE DATE UST Requested 111 + Sere ACCEPTED BY / AFFILIATION XCE OZSZEN ICI EONH Le calaser OSZH Jupreserved Steve Davis Brad Jacobson # OF CONTAINERS SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT Rlay TIME 800 1345 TIME 1035 2007 1335 01/122 0910 21/22/21/1 Pace Profile #; 10/3/12 24/1/22 11/12 27/15/01 14/1/12 GNATURE of SAMPLER: DATE DATE COLLECTED Pace Quote Reference Pace Project Manager: TIME RELINQUISHED BY / AFFILIATION Para Pace Xcel Energy Sherco Ponds Fall 22 Invoice Information company Name Section C DATE Attention: Address SAMPLE TYPE G=GRAB C=COMP O O 9 0 O O O 0 0 Brad Jacobson Riley Jacobson TW W TW TW TW W WT LW. W TW W Spana Required Project Information: Purchase Order No. Project Number Project Name: Section B Report To: Copy To: MATRIX putstrips notcois 8 leup muco 841 Duplicate NPDES Duplicate BAP2 Duplicate BAP Rinse NPDES Rinse BAP2 Duplicate P3 Rinse BAP P-179D Rinse P3 P-180A P-180D Environmental Services 2 Weeks One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Required Client Infor **Brad Jacobson** SAMPLE ID Xcel Energy Required Client Information: Fax: Requested Due Date/TAT: Section D Additional Comments: Phone; (612) 597-7254 Section A Email To: Company Address: 8 4 5 9 7 8 10 # M3TI

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Pace Project No. Lab I.D. DRINKING WATE OTHER OTHER MCES N/A N/A SAMPLE CONDITIONS Custody Sealed Cooler N/A N/A N/A e-File(ALLQ020rev.3,31Mar05))22Jun2005 Z Z REGULATORY AGENCY N N/X N/A N/A ☐ NPDES F GROUND WATER ☐ SCL Received on MN J. ui dmeT LHO 3 D_O TIME F RCRA 11/4/11 LOCATION -iltered (Y/N) SITE T UST DATE 11/4/22 DATE Signed (MM / DD / YY) aco been + Seveno Kublus ACCEPTED BY / AFFILIATION lethanol X La₂S₂O₃ HOP HCI EONH 7OSZH npreserved Steve Davis Brad Jacobson SAMPLER NAME AND SIGNATURE COLLECTION TA 9MBT BJ9MAR 1280 TIME 6935 0101 0T% Cler 11/2/22/090 1320 TIME 47 Pace Profile #: 11/3/22 14/1/22 11/2/12 11/2/22 11/2/12 22/1/11 DATE DATE COLLECTED Pace Quote Reference: Pace Project Manager: Invoice Information Xcel Energy Sherco Ponds Fall 22 TIME RELINQUISHED BY / AFFILIATION Company Name: are Section C Address: DATE G=GRAB C=COMP O O O O O g O 9 9 0 O WT G SAMPLE TYPE Riley Jacobson Brad Jacobson ± M T/ TW TW T/M TW M TW W TW **™ ■**GOO XINTAM Required Project Information. Jurchase Order No.: CODE DW WP NW Project Number Project Name: Section B MATRIX
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Pace Project No. Lab I.D. DRINKING WATER NIN OTHER OTHER MCES N/A N/A Samples Intact SAMPLE CONDITIONS of Sealed Cooler N/A N/A N/A L REGULATORY AGENCY Custody N N WN) Ice N/A N/A N/A Received on SCL NPDES F GROUND WATER O° ni qmeT L HO 525 NCT TIME RCRA 22/1/12 LOCATION gray Jees Dear Hours iltered (Y/N) SITE DATE L UST equested nalysis: 7/2 DATE Signed (MM / DD / YY) ACCEPTED BY / AFFILIATION lethanol OSSSEV XC HOEN IOH EONH 7OSZH Jupreserved Steve Davis # OF CONTAINERS Brad Jacobson SAMPLER NAME AND SIGNATURE 252 SAMPLE TEMP AT COLLECTION TIME Shot 1135 0151 195 ohs 019 大大 1640 TIME 1705 25h1 11/2/22/140 Pace Profile #: 1/2/27 2212/11 11/12 22/2/11 11/3/22 1/1/1/12 22/1/11 SIGNATURE of SAMPLER: 11/3/22 11/122 DATE 11/127 22/1/11 DATE COLLECTED Pace Quote Reference ace Project Manager: TIME Invoice Information Xcel Energy Sherco Ponds Fall 22 RELINQUISHED BY / AFFILIATION Company Name: Section C Attention: DATE Address: SAMPLE TYPE GRAB C=COMP 9 O O O O O 9 6 9 9 9 9 Riley Jacobson Brad Jacobson TW L M M TW W TW W M W TW TW \ N M MATRIX CODE Required Project Information: urchase Order No. Project Number Project Name: Section B Report To: Copy To: MATRIX pHStrps: 1 420133 @ NO SAMPLE - 165 Water P-129 (2) Osubmitted 11/11/22 by SICK P-101A P-101B P-126D P-128D P-130D 456-4 P-94A P-126 P-127 P-128 P-130 Environmental Services 2 Weeks (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE yo russel Required Client Info **Brad Jacobson** One Character per box SAMPLE ID Xcel Energy (Required Client Information: Fax equested Due Date/TAT: Section D Additional Comments: Section A mail To: Jone: (612 ompany: ddress ITEM #

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DRINKING WATER OTHER MCES Samples Intact SAMPLE CONDITIONS N/A N/A o Sealed Cool N/A N/A N/A N/A REGULATORY AGENCY Z Z N N Custody Received on lce N/A DIN N/A = GROUND WATER SCL 20 MN N O° ni qmeT LHO NC 1250 TIME RCRA IDATE Signed (MM/DD/YY) LOCATION hory 72/4/11 NPDES iltered (Y/N) SITE L UST DATE Requested Analysis: Jahrer Second ACCEPTED BY / AFFILIATION lethanol XE EOSSEN HOP ICI EONH OSEH Jupreserved Leels. Steve Davis # OF CONTAINERS Brad Jacobson SAMPLER NAME AND SIGNATURE COLLECTION 252 TA 9MBT 3J9MA2 TIME williagrasso 1330 1032 1450 TIME MA 140 1000 45 COMPOSITE END/GRAB Pace Profile #: 11/3/22 12/4/11 11/3/22 11/3/22 14/122 DATE 113/22 1/4/27 11/2/27 11/3/22 DATE SNATURE of SAMPLER COLLECTED ace Quote Reference: ace Project Manager: TIME Invoice Information: Energy Sherco Ponds Fall 22 RELINQUISHED BY / AFFILIATION Company Name: Section C Attention: Address: DATE SAMPLE TYPE G=GRAB C=COMP 9 O 9 9 9 O O O O O Brad Jacobson Riley Jacobson WT W WT WT WT L M T MATRIX CODE TW W W M WT M 7) Less Required Project Information: Xcel Jurchase Order No.: Project Number Project Name: Section B Report To: Copy To: (2) NO SAMPLE - Res WEIL 0 phatrys: Makerisa Osum Heed 1/1/102 by SER (N Required Client Information P-152A P-150 P-131D P-154A P-132 4-155 - P+86 P-131 P-151 P-153 P-157 854 Environmental Services 2 Weeks One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Brad Jacobson Xcel Energy SAMPLE ID MP-7 Required Client Information: Fax: Requested Due Date/TAT: Additional Comments: Section D 10ne: (612) Company: mail To: Address: # MBTI

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Pace Project No. Lab I.D. DRINKING WATE OTHER OTHER MCES Samples Intact N/A N/A SAMPLE CONDITIONS of Custody Sealed Cooler N/A N/A L e-File(ALLQ020rev.3,31Mar05))22Jun2005 REGULATORY AGENCY N N Page: 5 901 N/A N/A N/A Received on __ SCT ☐ NPDES F GROUND WATER ☐ 30 J° ni qmeT L Н NO 523 TIME L RCRA LOCATION iltered (Y/N) SITE 1200 11 4 39 L UST Requested Analysis: DATE Signed (MM / DD / ACCEPTED BY / AFFILIATION Nethanol OSSEN + HOEN IOH (orcebser EONH OSZH Jupreserved Steve Davis # OF CONTAINERS Brad Jacobson SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION 0224 TIME 1055 1110 0251 TIME Sp21 251511 NA 2/2/20 22/1/10 11/4/22 11/2/22 1114/22 114122 IGNATURE of SAMPLER: DATE DATE COLLECTED Pace Quote Reference Pace Project Manager: Invoice Information: TIME RELINQUISHED BY / AFFILIATION Xcel Energy Sherco Ponds Fall 22 Sompany Name Section C DATE Address: SAMPLE TYPE GGRAB C=COMP O O 0 O 0 0 0 0 O O O O Brad Jacobson Riley Jacobson WT TW W TW. M ₩ W \ M⊥ TW L M M MATRIX CODE M Required Project Information. Purchase Order No. Project Number Project Name: Section B Report To: pHStrps: MHOORS Copy To: MATRIX OS- brutter Willer-Ly SKR 6 2 NO SAMPLE - RUS INHIRE 1 40 mg 841. Required Client Information P-173 4-175 4 P-177 P-178A P-162 P-178B TATE O P-164 P-165 #--P-163 Environmental Services 2 Weeks One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE Brad Jacobson Xcel Energy SAMPLE ID 0 0 **Fax**: Required Client Information: equested Due Date/TAT: Section D Additional Comments: company mail To: ddress: H M3TI 10

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Pace Project No. Lab I.D. DRINKING WATE OTHER OTHER MCES N/A Samples Intact SAMPLE CONDITIONS of Sealed Cooler N/A N/A N/A N/A REGULATORY AGENCY L Page: 6 × × ME lce N/A N/A Received on ☐ NPDES F GROUND WATER ☐ SCL 40 O° ni qmeT HO Z 552 الكي TIME L RCRA Somethan LOCATION iltered (Y/N) 14/2/ SITE DATE L UST Requested analysis: NATE Signed (MM / DD / YY) ACCEPTED BY / AFFILIATION Nethanol LOSS SEV XCV HOSN ICI 550 EONH 705²H ubueseuved Steve Davis Brad Jacobson SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION TIME 1250 355 5250 1400 1000 TIME 11/1/22 11/12 22/1/12 22/1/11 11/4/22 DATE DATE COLLECTED ace Quote Reference Pace Project Manager RELINQUISHED BY / AFFILIATION TIME Invoice Information Xcel Energy Sherco Ponds Fall 22 Company Name: 200 Section C Attention: DATE Address: G=GRAB C=COMP O O O O O 9 O Ö O O 0 SAMPLE TYPE Riley Jacobson Brad Jacobson \ N M TW M W W LN M WT W W \ N **■**GOO XIRTAM Required Project Information urchase Order No. roject Number Project Name: Section B Report To: Copy To: MATRIX **Duplicate BAP2** Duplicate NPDES Duplicate BAP Rinse NPDES Rimsc BAP Duplicate P3 Rinse BAP2 Required Client Information pt Strp 5", m. Hoa? 3 CO81-4 C1021-d F-1807 Environmental Services 2 Weeks One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Brad Jacobson SAMPLE ID Xcel Energy 6 MP-7 O Wills by ske 9 Required Client Information: Fax: Requested Due Date/TAT: Additional Comments: Section D K hone: (612) 5 Section A N :ompany: Address: Email To: # MHLI 9 1 10 11