BEAVERLODGE RIVER WEIR MONITORING PROGRAM - 2022 REPORT

BEAVERLODGE RIVER
SE ½ 34-071-10 W6M

Prepared for:
MIGHTY PEACE WATERSHED ALLIANCE

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MATRIX SOLUTIONS INC.

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December 22, 2022

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TABLE OF CONTENTS

1 INTRODUCTION 1
1.1 Background 1
1.2 Project Activity Summary 3
1.3 Monitoring Program Parameters 5
2 METHODS 6
2.1 Spatial Monitoring Extent 6
2.2 Timing 7
2.3 Site Inspections 8
2.3.1 Fish Habitat Structure 8
2.3.2 Hydrotechnical Engineering Assessment 8
2.4 Hydrology 9
2.5 Water Quality 10
2.6 Fish Sampling 10
2.6.1 Riffle Water Velocities for Fish Passage 11
3 RESULTS 13
3.1 Site Inspections 13
3.1.1 Fish Habitat Structures 13
3.1.2 Hydrotechnical Engineering Assessment 14
3.1.3 Flood Frequency Analysis 18
3.2 Hydrology 19
3.2.1 Precipitation 19
3.2.2 Water Survey of Canada Gauge 07GD001 21
3.2.3 Beaverlodge River at the Weir 21
3.3 Water Quality 22
3.3.1 Water Temperature 22
3.3.2 Dissolved Oxygen 23
3.3.3 pH 24
3.3.4 Conductivity 25
3.3.5 Turbidity 26
3.4 Fish Sampling 31
3.5 Fish Passage 31
3.5.1 Riffle Water Velocities 31
4 DISCUSSION 33
5 RECOMMENDATIONS 35
6 REFERENCES 35

LIST OF FIGURES

FIGURE 1-1 Site Location 4
FIGURE 2-1 Site Plan 12
FIGURE 3-1 Beaverlodge Precipitation for 2022 Compared to the 30-year Normal Precipitation 19
FIGURE 3-2 Daily Mean Water Temperature (June to October) 23
FIGURE 3-3 Daily Mean Dissolved Oxygen Concentration (June to October) 24
FIGURE 3-4 pH Daily Average (June to October) 25
FIGURE 3-5 Specific Conductivity Daily Average (June to October) 26
FIGURE 3-6 Turbidity Daily Average (July to October) 27

LIST OF TABLES

TABLE 2-1 Site Location 6
TABLE 2-2 Summary of Monitoring Events of 2022 7
TABLE 2-3 Hydrology Data Summary 9
TABLE 3-1 Monitoring Results Since Construction of Riffles 15
TABLE 3-2 Instantaneous Flood Magnitude Estimates 18
TABLE 3-3 Beaverlodge Total Precipitation for 2019 to 2022 and Departures From the 1981 to 2010 Normal 20
TABLE 3-4 Minimum Monthly Mean, Maximum Monthly Mean, and Mean Monthly Discharge (m^3/s), Beaverlodge River at 07GD001 (1968 to 2020) 21
TABLE 3-5 June to September Minimum, Maximum, and Mean Monthly Discharge (m^3/s) for the Beaverlodge River at the Weir - 2019 to 2022 22
TABLE 3-6 2022 Sonde Data Summary 28
TABLE 3-7 Spot Check Water Quality Summary 30
TABLE 3-8 Electrofishing Fish Sampling Results 31
TABLE 3-9 Riffle 1 Point Velocity Summary Data 32
TABLE 3-10 Riffle 2 Point Velocity Summary Data 32

APPENDICES

APPENDIX A Site Photographs
APPENDIX B Hydrology
APPENDIX C Water Quality Sonde Data
APPENDIX D Hydrologic Analysis Figures

1 INTRODUCTION

The Mighty Peace Watershed Alliance (MPWA) conducted work in 2018 to improve fish passage at the Beaverlodge River weir, located southwest of the Town of Beaverlodge, Alberta (Figure 1-1). Two engineered riffle structures were built with riprap at the weir and 50 m downstream; the purpose of these structures was to create conditions suitable for fish to migrate/pass the weir. The design focused on the passage requirements of Arctic Grayling (*Thymallus arcticus*), but also considered other resident fish species such as Bull Trout (*Salvelinus confluentus*), Burbot (*Lota lota*), and Northern Pike (*Esox lucius*).

The fish passage improvement project (the Project) was supported by Alberta Transportation to meet offset conditions in their *Fisheries Act* authorization to twin the Peace River Bridge, near Peace River, Alberta. Two separate monitoring plans were prepared and submitted to Alberta Environment and Parks (AEP) and Fisheries and Oceans Canada (DFO):

AEP: A monitoring plan was initially submitted to AEP to meet monitoring conditions under Alberta *Water Act* Approval No. 00372572-00-00 (Matrix 2017a). The AEP monitoring plan focused on the structural integrity of the riffles and maintaining water velocities suitable for passage of the target fish species. Monitoring under the AEP plan was to be completed annually for 3 years, starting in 2019; monitoring requirements of the AEP monitoring plan were fulfilled in 2021.

DFO: DFO requested monitoring of fish movement through the fish passage structures over a 3-year period, beginning the first-year post-construction (i.e., 2019), and for the structural integrity assessments, water quality monitoring and water velocity measures to continue for a further 2 years beyond the AEP monitoring duration i.e., continue through 2022 and 2023. A separate monitoring plan that included fish passage monitoring was submitted to, and approved by, DFO (Matrix 2017b). Fish passage monitoring concluded in 2021. The remaining monitoring requirements of the DFO Monitoring Plan (Matrix 2017b) continued in 2022.

This report presents the results of the 2022 monitoring activities.

1.1 Background

Historical activities in the Beaverlodge River watershed, (which include agriculture, logging, the installation of a weir for municipal water supply, recreational activities and wetland modifications among other elements), have altered streamflow, water quality, and fish habitat in the watershed. The MPWA has been working with stakeholders in the watershed to improve and restore watershed conditions, facilitating a return of natural environmental processes and healthier aquatic ecosystems. This Project focuses on improving fish passage at the Beaverlodge River weir.

The Beaverlodge River weir is located 20 km upstream from the confluence of the Beaverlodge and the Redwillow River, and 24.5 km upstream of the Wapiti River (Figure 1-1). The weir was constructed in the early-1980s to hold back water and provide a place to withdraw drinking water for the Town of Beaverlodge. Once constructed, it was observed that fish were having difficulty moving upstream (Sharp 2019). Due to the shape of the weir, summer flows have been insufficient to maintain upstream fish passage at the weir. Consequently, fish populations upstream of the weir were reduced, with historical runs of Arctic Grayling and Bull Trout being reduced and access to spawning habitats severely limited. Arctic Grayling, a once abundant fish population, are now absent and considered functionally extirpated from the upper Beaverlodge River weir (CharettePellPoscente Environmental Corp. 2012). Several fish ladders have been installed at the Beaverlodge River weir since 1981; however, the ladders have all fallen into various states of disrepair. The ladder that existed prior to 2018 had broken and missing baffles and was clogged up with old debris jams (Appendix A1; Photographs 1, to 4). In this state, the ladder was not functioning to provide upstream or downstream fish passage.

As part of the MPWA's larger plans for watershed restoration and water quality improvement in the Beaverlodge River, fish passage improvement structures comprising two rock riffles were installed in the fall of 2018 (Figure 2-1). The objective of these improvements was to create conditions suitable for fish to migrate/pass the weir situated on the Beaverlodge River in a manner that complements the need to keep the existing weir. The objective considered the following:

1. Maintaining weir (water level) for water supply for the Town of Beaverlodge.

2. Allowing passage of Arctic Grayling, among other resident large-bodied fish, including Northern Pike, Bull Trout, Burbot, Longnose Sucker (*Catostomus catostomus),* White Sucker (*Catostomus commersonii*), and small-bodied fish during spring freshet, but also as importantly, during summer as the hydrograph declines.

3. Minimizing maintenance (e.g., the movement of woody debris, sediment accumulation, and bank erosion) to maximize weir capacity to function without attention.

The fish passage design considered the extent of different flows to facilitate the passage of fish upstream and downstream past the weir, particularly during the decreasing portion of the hydrograph. The design concentrates river flow into the centre of the riffle structures to permit swimming during low flow periods, but not so much that fish cannot swim and pass; this feature is dependent on having river discharge that allows water to flow through the riffle features. Historically, flow in the Beaverlodge River at the weir have all but ceased in various late summer periods (Appendix A1; Photograph 1).

1.2 Project Activity Summary

To achieve the objectives of the Project and create conditions suitable for fish to migrate/pass the weir, the following activities were completed:

1. The fish ladder was removed. The void left by the removal of the fish ladder was filled with similar sized riprap as was used for the riffle construction. A steel plate was welded to the sheet pile weir to prevent seepage through the rock voids at the former fish ladder location.

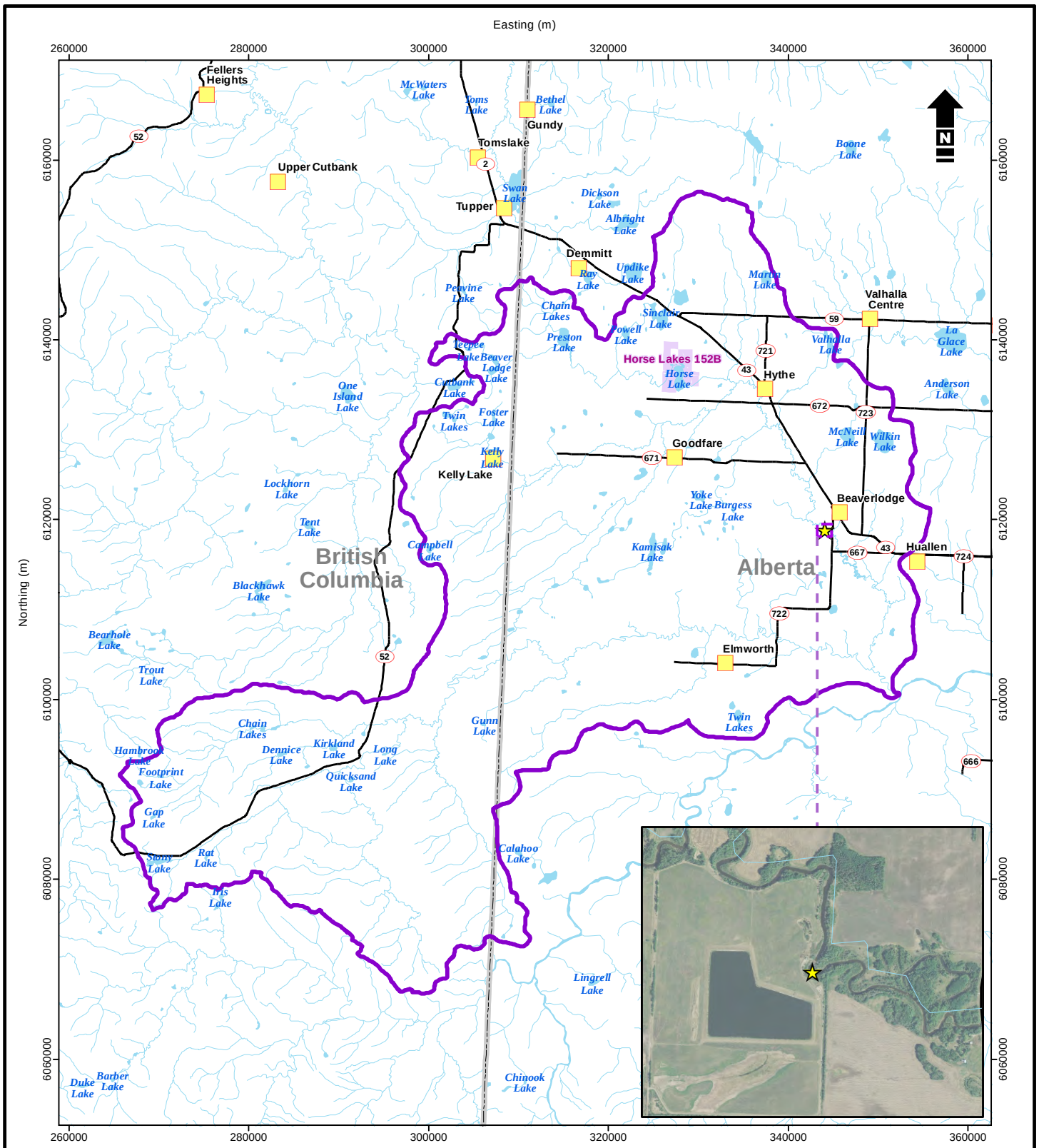
2. Two riprap riffles were constructed to provide fish passage in a more natural way, with no foreign objects and presenting the lowest possible stress to fish while moving through the weir area.

3. The riprap riffles were constructed with large keystone boulders at the crests to ensure the riffles are stable over a range of flows and the relative elevation drop between the riffles is maintained.

    a. A scour hole just downstream of the sheet pile weir was filled with riprap and incorporated into the upstream riffle.

    b. The riprap riffles were keyed-in on the banks and beds of the river.

    c. Gravels were placed among the riprap voids to concentrate flow at the surface of the riffles (vs. the flow passing through the riprap voids below the surface). The surface of the riffles were kept irregular with protruding boulders to provide cover for fish transiting the riffles.



Redwillow Watershed Boundary
Provincial Boundary
Community
Indian Reserve
Water Body
Watercourse
Highway
Existing Weir Location

1:600,000
kilometres
6 0 6 12
NAD 1983 UTM Zone 11N

Reference: Data obtained from AltaLIS © Government of Alberta, GeoBase® and GeoGratis © Department of Natural Resources Canada (all rights reserved) used under license. GDM transportation infrastructure data provided by IHS © 2015 used under license. Imagery (2012) provided by Valtus Image Service © (2020). Used under license.

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Mighty Peace Watershed Alliance
Beaverlodge River

Site Location

Date:	Project:	Submitter:	Reviewer:
November 2021	2199	K. Lowes	S. Christidis

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Figure 1-1

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1.3 Monitoring Program Parameters

Year 4 and 5 of the DFO monitoring program is structured to assess fish passage conditions at both riffle structures throughout the open water season (April to October). Fish passage was assessed based on continuous hydrometric monitoring at the riffles, and the collection of velocity and depth measurements within each structure. It should be noted that fish use of the structures is dependent on the presence of the target species being present within the watershed, which relies on overall habitat improvements to the watershed. Monitoring parameters approved by DFO were developed based on available information on hydrology and potential fish species use and include:

1. Visual inspection of the fish passage structures by a qualified engineer to assess erosion and redistribution of sediments (i.e., degradation and aggradation) caused by altered hydraulic dynamics and assess the ongoing structural integrity of the structures.

    - Rationale: ensure that the structures are stable and provide recommendations for improvement in consultation with a fisheries biologist, if needed.

2. Assessment of the passage structures channel shape – channel depth and width, stream discharge, and water depth.

    - Rationale: the channel has been constructed with an inverted parabolic shape concentrating stream flows through the middle of the fish passage structures and these parameters will be used to determine if the channel shape changes over time.

3. Monitoring of water depth and velocity over each of the passage structure steps, and water depth in each associated downstream pool.

    - Rationale: the fish passage structures were designed with the intent that flow velocities over each step will be less than burst speeds for anguilliform and subcarangiform fish 20 cm or larger, which is 1.2 m/s (Katapodis 1992).

4. Monitoring of in situ water quality parameters including water temperature, dissolved oxygen (DO) concentrations, pH, specific conductivity, and turbidity upstream and downstream of the fish passage structures.

    - Rationale: concentrating the flows through the central portion of the fish passage structures will decrease the width of the flow and increase flow velocity. Thus, water temperatures and DO levels should be maintained.

5. Visual inspection by a fish biologist to identify potential conditions that may prevent fish using the fish passage structure.

- Rationale: changes to site conditions from variable stream flows and hydraulic forces may result in subtle changes to the structures and adjacent habitat that discourage fish from passing.

6. Visual inspection of the watercourse banks and the outside bend of the river immediately downstream of the structures.

   - Rationale: ensure that vegetation is establishing, document any form of erosion, and provide recommendations, as needed.

7. Monitoring of fish habitat use around fish habitat structures.

   - Rationale: Fish sampling around the riffle structures will confirm habitat use by various species and life stages of resident fish populations. In addition, fish sampling effort will determine if fish are staging below riffle structures.

2 METHODS

The following subsections describe the methods used to assess the parameters identified in Section 1.3. Quality assurance and quality control protocols were followed during the monitoring program described in this report and were designed to ensure production of data of known and defensible quality. Field sampling, data recording, and equipment operations were completed using an approach that included standardized procedures for sample and data collection.

2.1 Spatial Monitoring Extent

Site inspections, hydrology, water quality monitoring, and fish use monitoring were focused on a 160 m study reach of the Beaverlodge River which extended 20 m upstream of Riffle 1, included a large scour pool between both riffle structures, and extended 20 m downstream of Riffle 2 (Table 2-1; Figure 2-1).

TABLE 2-1 Site Location

Site ID	Location (UTM Location NAD 83 11 U)
Riffle Structures	
Riffle 1 (weir, upstream)	344044E 6118864N
Riffle 2 (downstream)	344093E 6118823N
Hydrology	
Manual Flow Measurement Location	344056E 6118871N
Pressure Transducer Location	344050E 6118876N
Time Lapse Monitoring Camera Location	
Camera Location Riffle 1	344051E 6118863N
Camera Location Riffle 2	344098E 6118822N

Site ID	Location (UTM Location NAD 83 11 U)
Monitoring Locations	
BL1	344049E 6118870N
BL2	344039E 6118857N
BL3	344019E 6118815N
BL4	344038E 6118833N
BL5	344086E 6118811N
BL6	344105E 6118827N
Instream Water Quality Sonde Monitoring Locations	
Upstream	344064E 6118869N
Downstream	344104E 6118823N

UTM - Universal Transverse Mercator Coordinate system

2.2 Timing

Four monitoring events took place in 2022 (Table 2-2).

TABLE 2-2 Summary of Monitoring Events of 2022

Date	Monitoring Task
April 22, 2022	• General site inspection • Hydrometric field work, including the installation of a pressure transducer and streamflow measurement with corresponding water level survey • Installation of a time lapse monitoring camera
June 23 and 24, 2022	• General site inspection • Installation of water quality data sondes • Fish sampling • Hydrometric field work including streamflow measurement and corresponding water level surveys • Photographs download from time lapse monitoring camera
August 9, 2022	• General site inspection • Water quality sonde data download • Hydrometric field work including streamflow measurement and corresponding water level surveys • Photographs download from time lapse monitoring camera
October 12, 2022	• General site inspection • Hydrotechnical engineering inspection of riffle structures • Water quality sonde data download • Photos download from time lapse monitoring camera • Water quality sondes, time lapse camera, and pressure transducer removal

2.3 Site Inspections

Six site inspection monitoring locations within the study reach were established in 2019 and remained the same for each subsequent monitoring year (BL1 to BL6; Figure 2-1). All six site inspection monitoring locations were used for photographic documentation of site conditions, erosion, and bank stability assessments.

2.3.1 Fish Habitat Structure

Current fish habitat conditions within the riffle structures and study reach were documented, and consisted of the following components:

- documenting fish habitat and evaluating the effect of the riffle structures, if any (e.g., flow velocity, substrate composition)
- documenting site-specific channel morphology and biophysical habitat (channel depths, wetted widths, substrate composition and distribution, and instream and overhead habitat cover)
- identifying the suitability of the fish habitat for fish species and utilization within the study reach
- documenting significant changes to site conditions and the fish habitat structure, if any

2.3.2 Hydrotechnical Engineering Assessment

A hydrotechnical engineering assessment was completed during the October 2022 field visit to meet monitoring program parameter #1 as outlined in Section 1.2. The following items were assessed:

1. Stability and effectiveness of the riffle structures in the context of allowing fish passage. This includes monitoring the following:

    a. Whether the riprap and gravel positioning within the riffles is relatively stable; some re-modelling is expected but there should not be significant loss of material in any locations.

    b. Whether the riffle crest elevations (i.e., the keystone riprap) are stable.

    c. Whether the riffle shapes concentrate flow (and especially low flow) at a designated low spot on the riffle crest to allow fish passage, and do not prevent fish passage due to the downstream riffle slopes becoming oversteepened.

    d. Whether the riffles have stability against outflanking (caused by bank erosion) and undermining (caused by toe erosion).

2. Erosion and redistribution of sediments at the riffles (i.e., to determine whether aggradation and degradation are occurring at the riffles).

The hydrotechnical engineering assessment is based on:

1. Site reconnaissance on October 11, 2022 by Kevin Seasons, Water Resources E.I.T., accompanied by Karlen Lowes, P. Biol.

2. Review of site photographs and site notes from before, during, and after construction by Kevin Seasons, E.I.T., and Katy Curtis, P.Eng. – including photographs and qualitative notes from the 2022 site reconnaissance. Comparison photographs between subsequent monitoring years are provided in Appendix A1 while comprehensive 2022 monitoring photographs are provided in Appendix A2.

2.4 Hydrology

Manual discharge measurements collected across a variety of flow conditions were used to generate a water level (stage)-discharge relationship. The initial stage-discharge rating (2019-001) was created in 2019 and updated as necessary to account for natural fluctuations in stream profile. Each update to the base rating was recorded with a new suffix (2019-001, 2019-002 etc.) A hydrometric station, Beaverlodge River at the weir, was installed by Matrix immediately upstream of the upstream riffle in order to measure water level in the Beaverlodge River. Water level was monitored continuously over the open season from April 22 to August 9 and used to calculate continuous discharge. A hydrology data summary is included in Table 2-3.

Matrix identified that if the flow in the Beaverlodge River dropped below a discharge threshold, there would be insufficient water to submerge the riffles making fish passage unlikely. The discharge threshold required to raise water levels to the height of the riffle is Q-fish$_{min}$. An elevation survey of the riffle was completed on October 6, 2021. Although some flow is possible between the larger rocks of the riffle, fish passage is unlikely unless the flow is sufficient to raise the height of the gauge pool to an elevation greater than that of the lowest point of the riffle structure. Once Q-fish$_{min}$ was calculated for the Beaverlodge River at the weir hydrometric station, it was possible to transfer the information to the datum collected by the Water Survey of Canada (WSC) hydrometric gauge 07GFD001 (located 1.5 km downstream of the riffles) if the Beaverlodge River at the weir station is decommissioned or damaged. In 2021, Q-fish$_{min}$ was calculated to be 0.0399 m^3/s (Matrix 2021). Q-fish$_{min}$ calculated in 2021 was based on the 2019-002 rating.

TABLE 2-3 Hydrology Data Summary

Year	Monitoring Period	Number of Discharge Measurements Completed	Active Stage-Discharge Rating Curve
2019	May 31 to October 31	4	2019 - 001
2020	June 21 to October 1	3	2019 - 002
2021	April 29 to October 4	2	2019 - 002
2022	April 22 to August 9	3	2019 - 003

Since data collection began in 2019 at the Beaverlodge River at the weir station, the greatest discharge measurement collected was 4.70 m^3/s. To derive flows for the range of water levels recorded at the station, more discharge measurement data was required. Therefore, in 2022 Matrix determined it was necessary to extrapolate the rating curve up to twice the highest measured discharge since data generated outside this threshold is associated with a high uncertainty (WSC 2016). High flows measured by WSC at the nearby 07GFD001 gauge were used to estimate rating points for the Beaverlodge River at the weir station and generate a new base rating (2019-003).

Changes from 2019-002 to 2019-003 adjusted rated flows above 7.030 m^3/s. Discharge values below this are unaffected by the changes, and the Q-$fish_{min}$ calculated in 2021 remains unchanged.

The stage-discharge rating curve(s) was constructed using AQUARIUS™ and followed WSC methods where possible. Hydrometric monitoring instrumentation used in 2022 was identical to instrumentation used in 2021 and is detailed in Matrix (2019).

2.5 Water Quality

Two In-Situ Inc. Aquatroll 600 multiparameter sondes were introduced into the monitoring plan in 2020 based on a technical suggestion by AEP. From 2020 onward, the multiparameter sondes were installed upstream of Riffle 1, and downstream of Riffle 2 to continuously monitor in situ water quality parameters throughout the open water season. Continuous water quality monitoring parameters included water temperature, DO, pH, specific conductivity (SC), and turbidity (NTU). Sondes were deployed within the study reach from June 23 to October 12, 2022.

The same parameters measured continuously were spot checked during each site visit at four of the six in situ monitoring locations (BL1, BL2, BL5, and BL6; Table 2-3; Figure 2-1). In situ water quality was collected using a calibrated multimeter (YSI 550 or Pro Plus model). Turbidity values were collected using a turbidity meter (Orbecco Hellige TB 200).

Maintenance of the sonde's probes were completed during each site visit, and each sonde was calibrated to manual spot readings to confirm accuracy.

The average daily DO concentrations and pH levels were compared to the *Environmental Quality Guidelines for Alberta Surface Waters* (AEP 2018).

2.6 Fish Sampling

In Year 4 (2022), and 5 (2023) of the DFO monitoring program, fish tagging efforts using a passive integrated transponders (PIT) tag system, and fish passage and fish use monitoring, including Environmental DNA (eDNA) sampling targeting Arctic Grayling, are no longer required, and ceased in Year 3. Fish sampling was conducted to monitor fish habitat use by residential fish populations within and

around each riffle structure, and within the pool habitat located in Reach 2 (Figure 2-1). Fish sampling was completed on June 23 and August 9, 2022, under Research Licence 22-1006 issued by AEP.

Electrofishing was completed during the June field program using a SmithRoot Generator Powered Pulse 2.5 portable electrofishing unit mounted on an inflatable zodiac boat. Electrofishing was conducted within each sampling reach over a 1-day period. Temperature and electrical conductivity were measured prior to each electrofishing event to calculate appropriate unit settings. Continuous electrofishing effort was considered at the time of sampling to limit continual shocking of fish in shallow areas. Pulse bursts of 5 to 15 seconds were conducted while moving the boat slowly against the flow. Captured fish were placed in an aerated container and held for up to 15 minutes before being processed.

Angling was completed during the August sample period by one crew member. A spin cast rods with spoon lures were used. Casting was conducted from the shoreline. Arctic Grayling, Bull Trout, and Northern Pike were targeted during angling.

All sport and sucker fish species captured were identified to species, enumerated, and measured. All forage fish species were identified and enumerated. Fish were able to recover in separate live wells before being released where they were captured. All fish species that may have been tagged in 2020 and 2021 were scanned with a handheld PIT tag reader to identify previously tagged fish.

2.6.1 Riffle Water Velocities for Fish Passage

At each riffle structure, point velocity measurements were recorded upstream, at the mid-section, and downstream at 25%, 50%, and 75% of the riffle structure width in April, June, and August (Table 2-1). The velocity measurements were completed at the surface of the water (April, June, August) and bottom (April, June) of the water column. Instream measurements were limited across the riffle structure in April and August due to unsafe flow conditions.

Flow Direction
Monitoring Location
Monitoring Camera
Level Logger Location
Water Quality Sonde

Reference: UAV imagery (June 23, 2022) obtained by Mighty Peace Watershed Alliance and Matrix Solutions Inc. used under license. Imagery (2018) Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

1:500 metres
5 0 5 10
NAD 1983 UTM Zone 11N

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Mighty Peace Watershed Alliance
Beaverlodge River

Site Plan

Date:	Project:	Submitter:	Reviewer:
December 2022	2199	K. Lowes	S. Christidis

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Figure 2-1

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3 RESULTS

3.1 Site Inspections

3.1.1 Fish Habitat Structures

The channel habitat units within the study reach have largely remained consistent throughout the monitoring years (2019 to 2022). Run habitat units were present directly upstream of Riffle 1 and downstream of Riffle 2 (Appendix A2; Photographs 1 to 4 and 37 to 40). The large pool observed in 2019, 2020 and 2021 between Riffle 1 and 2 (Appendix A2; Photographs 13 to 28) was still present in 2022. Wetted widths upstream and downstream of each riffle structure ranged from 12 to 14 m, consistent with previous monitoring years. During the June 2022 assessment, the maximum wetted depth recorded directly upstream of Riffle 1 and downstream of Riffle 2 were 3.0 and 2.2 m, respectively. A maximum wetted depth of 2.9 m was recorded within the pool located downstream of Riffle 1. Flow rates during the 2022 monitoring year within the Beaverlodge River peaked in May and gradually receded until early July; flow rates remained low for the remainder of the monitoring period (Section 3.2.3). As a result, receding water levels observed throughout the monitoring period deceased the general habitat surface area within the study reach, a trend identified in previous monitoring years.

Substrate composition has remained consistent throughout the monitoring years. Fines substrate material dominated the bed and bank composition directly upstream of Riffle 1, as well as the shoreline and banks between the riffle structures. Directly downstream of Riffle 2, the substrate consists of cobbles with areas of gravel and fine bed substrate. Except for the steep eroded right bank between Riffle 1 and Riffle 2 (Appendix A2; Photographs 13 to 16 and 25 to 28), the banks remained well vegetated throughout the whole study area; overhanging willows, grasses, and deciduous trees were abundant within the study reach (Appendix A2; Photographs 1 to 4, 17 to 28, and 37 to 40). Additional fish habitat cover within the study reach was provided by areas of undercut banks, instream vegetation, depth of water, colour of water, and the accumulation of large woody debris along the shoreline. As observed in the previous monitoring year, woody debris accumulates periodically within the riffle structures throughout the monitoring period, providing additional fish habitat cover.

The overall function of the riffle structures is unchanged from previous monitoring years. When water levels within the Beaverlodge River are sufficient to crest the riffle structures, water flow is directed through the centre of reach riffle at various flows; numerous step pools, back water eddies, cascades, and chutes are present within both riffle structures (Appendix A2; Photographs 9, 10, 29, and 30). Wetted depths throughout the riffle structures ranged from 0.11 to 0.66 m during the April and June field programs. During the August and October field visits, stream flows and water levels observed to be insufficient to pass over Riffle 1 and Riffle 2 (Section 3.2.3, Appendix A2; Photographs 7, 8, 11, 12, 31, 32, 35, 36, and 42).

3.1.2 Hydrotechnical Engineering Assessment

From the hydrotechnical engineering assessment (see methods in Section 2.3.2) the following key observations, conclusions, and recommendations are made:

TABLE 3-1 Monitoring Results Since Construction of Riffles

Parameter	Performance Criteria	Site Photographs (2022)	Monitoring Results (Stable or More Frequent Monitoring Warranted or Repairs Needed)			
			Year 1 (2019)	Year 2 (2020)	Year 3 – Engineering Survey Completed (2021)	Year 4 – Engineering Visual Inspection Completed (2022)
Riprap Positioning and Riffle Gravels	• Qualitative assessment • Survey comparisons to show bulk movement of riprap if available • Gravels present in riprap. Gravels do not need to be present at surface of riffle	• Appendix A1; Photographs 5, 9, 10, and 14 • Appendix A2	**Stable** • No survey completed. No movement of large riprap observed. • Visual inspection indicates surface gravels have been washed away, but gravels in the riprap voids are present and effective at concentrating flow at the riffle surface (vs. flow passing through the riprap voids and not being available on the surface).	**Stable** • No survey completed. No movement of large riprap observed. Some movement of individual pieces of riprap after the 1:20-year[1] flood in July compared to as-built conditions. • Visual inspection indicates surface gravels have been washed away, but gravels in the riprap voids are present.	**Stable** • No additional significant movement of individual pieces of riprap was observed in 2021 compared to 2020. Riprap is observed to be well interlocked and stable so is not a concern at this time. • Visual inspection indicates no additional scour of the gravels placed between the riprap at the time of construction has occurred since 2020.	**Stable** • No survey completed. No movement of large riprap was observed in 2022 compared to 2021. Riprap is observed to be well interlocked and stable so is not a concern at this time (Appendix A1; Photographs 9 and 14). • Visual inspection indicates no additional scour of the gravels placed between the riprap at the time of construction has occurred since 2021 (Appendix A1; Photographs 5, 9, 10, and 14).
Riffle Crests (i.e., keystone riprap)	• Keystone riprap in original as-built location	• Appendix A1; Photographs 9 and 14 • Appendix A2	**Stable** • No survey completed. Riffle crest and keystone riprap stability confirmed by visual inspection.	**Stable** • No survey completed. Riffle crest and keystone riprap stability confirmed by visual inspection.	**Stable** • Riffle crest and keystone riprap stability confirmed by visual inspection and RTK survey. • Relative elevation difference between riffle crests is 0.80 m, compared to 0.76 m on the as-built surveys. The aquatic assessment concluded this drop is acceptable from a fish passage perspective because it approximately matches the as-built elevation drop between the two riffles and still allows for fish passage.	**Stable** • No survey completed. Riffle crest and keystone riprap stability confirmed by visual inspection (Appendix A1; Photographs 9 and 14).
Riffle Shape	• Flows concentrated at the centre of the riffles • Downstream riffle slopes do not prevent fish passage due to being oversteepened	• Appendix A1; Photographs 9 and 14 • Appendix A2	**Stable** • No survey completed. Visual inspection indicates flows concentrated at centre of riffle and downstream riffle slopes have not changed.	**Stable** • No survey completed. Visual inspection indicates flows concentrated at centre of riffle and downstream riffle slopes have not changed.	**Stable** • RTK survey indicates the shape of the riffles continues to concentrate flow at the centre of the riffle to allow fish passage. The movement of some individual pieces of riprap noted above has resulted in further concentration of flows down the centre of the riffles compared to the as-built conditions. This is a positive effect because during low flow conditions the depth of flow in the thalweg is increased compared to the as-built condition, providing better fish passage. • Downstream riffle slopes are not too steep for fish passage. The thalweg at the centre of each riffle has become more defined since construction (i.e., deepened); this is expected, and the riffles do not present a barrier to fish passage. • Riffle 1 and 2 are still functional.	**Stable** • No survey completed. Visual inspection indicates flows concentrated at centre of riffle and downstream riffle slopes have not changed (Appendix A1; Photographs 9 and 14).

[1] The 2020 flood was originally reported as a 1:5-year flood (63 m^3/s) because it was based on preliminary data from the Water Survey of Canada (WSC) (Matrix 2021). WSC has since finalized flow data from 2020 and adjusted the maximum flow upwards; the adjusted maximum instantaneous flow in 2020 (105 m^3/s) was just under a 1:20-year flood (110 m^3/s).

Parameter		Performance Criteria	Site Photographs (2022)	Monitoring Results (Stable or More Frequent Monitoring Warranted or Repairs Needed)			
				Year 1 (2019)	Year 2 (2020)	Year 3 – Engineering Survey Completed (2021)	Year 4 – Engineering Visual Inspection Completed (2022)
Riffle Stability Against Outflanking	Right Bank Erosion	• Qualitative assessment • Survey comparisons if available	• Appendix A1; Photographs 15 to 19	**Stable** • No survey completed. Visual inspection indicates erosion at the right bank that existed before construction in 2018 at Riffle 2 has not worsened. • No erosion observed at the right bank at Riffle 1.	**Monitor** • No survey completed. Visual inspection indicates erosion at the right bank at Riffle 2 has worsened since 2019 (a 1:20-year flood occurred this year; Appendix D, Figure 1), but the riffle is still functional (i.e., flow is concentrated across the riffle crest and is not bypassing the riffle). • Concept level mitigation recommendations for the erosion at Riffle 2 were provided in a 2020 memorandum (Matrix 2020a). • No erosion observed at the right bank at Riffle 1.	**Monitor** • RTK survey completed. • Based on the visual inspection there does not appear to have been worsening of the erosion on the right side of the channel at Riffle 2 since it was noted in 2020. There has not been a significant flood since the 1:20-year event in 2020 (i.e., 2021 was a low flow year. This area is susceptible to erosion and possible outflanking during a flood (e.g., the 1:20-year flood in 2020). • No right bank erosion observed at the right bank at Riffle 1. • Riffle 1 and 2 are still functional.	**Monitor** • No survey completed. Visual inspection indicates vegetation and soil at the right bank at Riffle 2 has eroded slightly since 2021, but the riffle is still functional (i.e., flow is concentrated across the riffle crest and is not bypassing the riffle). • Assessment of the unmanned aerial vehicle imagery from 2021 and 2022 indicates that there has been no/minimal movement/erosion of the top of bank at Riffle 2. Given that the erosion observed in 2020 caused vegetation and soil to fall onto Riffle 2 at the right bank, and that 2021 was a low flow year, it is likely that the vegetation remained in place until 2022. Higher flows in 2022 (maximum daily flow was about 25 m^3/s in 2022 vs. 7.2 m^3/s in 2021) would have displaced the vegetation and soil while causing little movement of the riprap at the riffle. • No erosion observed at the right bank at Riffle 1. • Riffle 1 and 2 are still functional.
	Left Bank Erosion	• Qualitative assessment • Survey comparisons if available	• Appendix A1; Photograph 14	**Stable** • No survey completed. No erosion observed at the left bank at Riffle 1 or Riffle 2.	**Monitor** • No survey completed. Visual inspection indicates some erosion on the left bank of Riffle 2 which is obscured by riparian vegetation. • No erosion observed at the left bank at Riffle 1.	**Monitor** • RTK survey completed. Survey data confirms some minor erosion is present on the inside (left) bend at Riffle 2. This erosion is not apparent in photographs because it is obscured by riparian vegetation. From the survey data in that location the bank was eroded approximately 1.3 m laterally (away from the water) over 8 m along the river. • No erosion observed at the left bank at Riffle 1. • Riffle 1 and 2 are still functional.	**Monitor** • No survey completed. Visual inspection indicates no worsening of the erosion on the inside (left) bend at Riffle 2 (Appendix A1; Photograph 14). • No erosion observed at the left bank at Riffle 1. • Riffle 1 and 2 are still functional.

Parameter	Performance Criteria	Site Photographs (2022)	Monitoring Results (Stable or More Frequent Monitoring Warranted or Repairs Needed)			
			Year 1 (2019)	Year 2 (2020)	Year 3 – Engineering Survey Completed (2021)	Year 4 – Engineering Visual Inspection Completed (2022)
Riffle Stability Against Undermining	• Toe riprap remains in place	• Photographs not available (toe obscured by water)	**Stable** • No survey completed. Toe riprap not visible but is assumed to be stable because all the riprap on the riffle face is stable.	**Stable** • No survey completed. Toe riprap not visible but is assumed to be stable because all the riprap on the riffle face is stable.	**Stable** • RTK survey completed. Riprap at the toe of each riffle has not moved since installation. • RTK survey indicated some scour of the bed material at the toe of Riffle 1. This toe scour is likely a result of local scour at the transition of riffle riprap to the natural bed material (which consists of deposited sediments). The movement of the sediment deposits at the riffle toe is not considered a concern because the riprap itself has not moved considerably and there is a large amount of riprap upstream of the toe located in what is assumed to be the previous scour hole from the old weir. • Riffle 1 and 2 are still functional.	**Stable** • No survey completed. Toe riprap appears stable. No scour holes observed at the transition to the natural channel.

From the above, the riffle habitat structures are currently stable in the context of providing fish passage. However, erosion on the outside (right) bend of Riffle 2 is threatening to outflank the riffle (Appendix A1; Photographs 15 to 19). Continued erosion of the right bank could result in formation of a new channel thalweg adjacent to Riffle 2, allowing flow to bypass the riffle during low flow periods. If this were to happen, water levels in the large pool located between Riffle 1 and Riffle 2 may lower to an elevation that is closer to pre-construction conditions. Lower water levels could potentially expose all of the toe/run out of Riffle 1 which would increase the distance that fish are required to swim to pass the riffle up to 20 m. The likelihood of the riffle being bypassed is unknown at this time. If the riffle is bypassed and water levels are reduced, fish may still be able to pass a longer riffle structure at Riffle 1.

3.1.3 Flood Frequency Analysis

A history of maximum annual flows was compiled, and a flood frequency analysis was conducted on the 53-year annual maximum instantaneous flow record from WSC station 07GD001. The frequency analysis provides context on the floods that have been experienced since construction in relation to a range of flood magnitudes and return periods. The details and results of this analysis are provided on Figure 1 in Appendix D.

The computed flood magnitudes (instantaneous flows) are summarized in Table 3-2. Flood history before and after construction of the riffles is provided on Figure 1 in Appendix D.

Since construction of the riffles in September 2018, the maximum instantaneous flow experienced was approximately 105 m^3/s in 2020, which is just below a 1:20-year flood. The riffles were designed to be stable for an average channel velocity during the 1:100-year flood of 4.1 m/s. For comparison the modelled velocity during the maximum flow experienced at the riffles (the 2020 1:20-year flood) is 3.6 m/s at Riffle 1 and 2.3 m/s at Riffle 2, i.e., about 89% of the design velocity. The incremental velocity increase between the 1:20-year flood and the 1:100-year flood is 0.5 m/s. Therefore, the expected erosion during the 1:100-year flood would be on the same order as the 1:20-year event that occurred in 2020.

TABLE 3-2 Instantaneous Flood Magnitude Estimates

Flood Return Period	Instantaneous Flood Magnitude (m^3/s)
1:2-year	30
1:5-year	60
1:10-year	85
1:20-year	110
1:50-year	145
1:100-year	170

3.2 Hydrology

3.2.1 Precipitation

Total precipitation data sourced from the Environment and Climate Change Canada for the Beaverlodge Climate Station (Climate ID: 3070600) for 2022, including a comparison to the 30 year climate normal, and previous 3 year average for precipitation is provided in Table 3-3. The monthly variations in precipitation for 2022 from the 1981 to 2010 normal precipitation are shown as percent differences indicating the dominant wet or dry conditions over the course of the year (Table 3-3; Figure 3-1). November and December precipitation records for 2022 are incomplete at the time of this report.

Above average precipitation in January and February resulted in a deep snow accumulation over the region. Rainfall during the summer months was below average from June to August. Overall Precipitation to the end of available record (end of October) was 20% below the historical average.

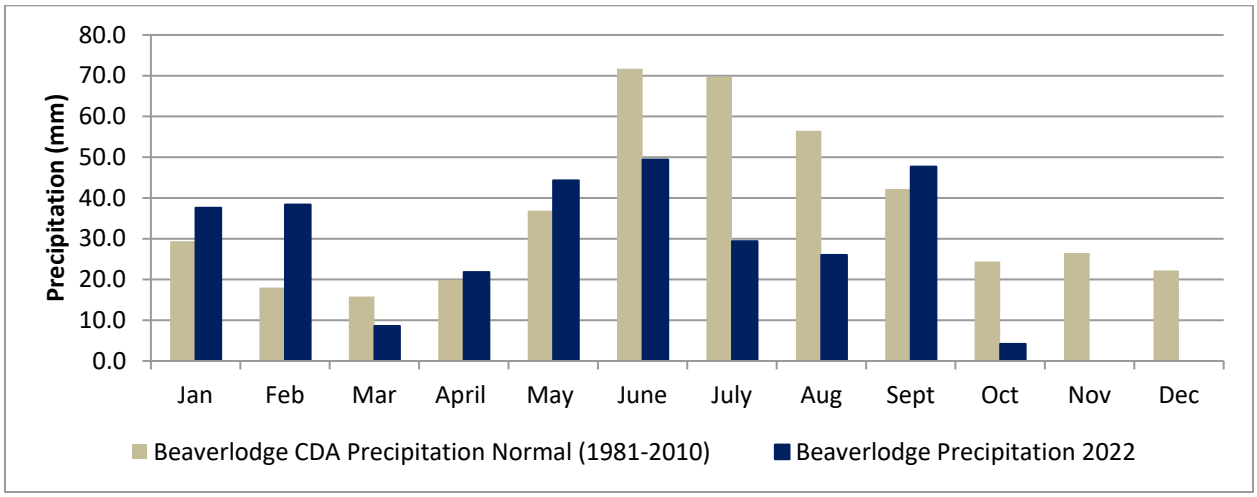

FIGURE 3-1 Beaverlodge Precipitation for 2022 Compared to the 30-year Normal Precipitation

TABLE 3-3 Beaverlodge Total Precipitation for 2019 to 2022 and Departures From the 1981 to 2010 Normal

Year	Site	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	EOAR[1]
1980 - 2010	Beaverlodge CDA 1981 - 2010 Normal (mm)	29.4	18.0	15.8	19.9	36.9	71.7	69.7	56.5	42.2	24.4	26.5	22.2	433.1	-
2019 - 2021 Average	Beaverlodge Precipitation (mm)	20.2	19.2	15.3	12.0	42.7	41.4	65.4	45.8	21.5	38.0	35.7	14.8	372	-
	Departure from Normal	-31%	7%	-3%	-40%	16%	-42%	-6%	-19%	-49%	56%	35%	-33%	-14%	-
2022	Beaverlodge Precipitation (mm)	37.6	38.4	8.6	21.8	44.3	49.4	29.4	26.0	47.7	4.2	-	-	-	307.4
	Departure from Normal	28%	113%	-46%	10%	20%	-31%	-58%	-54%	13%	-83%	-	-	-	-20%

Note:
1. End of available record

3.2.2 Water Survey of Canada Gauge 07GD001

The available real time record for 2022 streamflow at the WSC gauge (taken November 2022) showed a peak flow of 25.0 m^3/s on May 10 due to snow melt. After peak flow in May, flow rates gradually receded until reaching values below 1.0 m^3/s in early July and continuing to near 0 m^3/s for the remainder of the open season. No significant rainfall induced peaks were observed over the open season. The hydrograph showing both the WSC gauge and project gauge during 2022 is included in Appendix B.

Over the period of available record (1968 to 2020), discharge on the Beaverlodge River at the WSC gauge 07GD001 is dominated by snowmelt runoff with maximum annual flows occurring toward the end of April. Streamflow for the remainder of the year is highly dependent on the magnitude and frequency of rainfall and runoff events. Base flows tend to decrease throughout the open season with minimum flows frequently approaching zero from August to March (Table 3-4). The WSC gauge 07GD001 is operated seasonally only and winter discharge is not available. Published monthly summary statistics do not yet include the 2021 and 2022 data.

TABLE 3-4 Minimum Monthly Mean, Maximum Monthly Mean, and Mean Monthly Discharge (m^3/s), Beaverlodge River at 07GD001 (1968 to 2020)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min. Monthly Mean	0.000	0.000	0.000	0.251	0.011	0.031	0.006	0.000	0.000	0.000	0.000	0.000
Max. Monthly Mean	0.196	0.217	11.500	38.600	39.60	26.100	27.000	15.200	10.200	3.770	0.570	1.220
Mean Monthly	0.062	0.070	1.670	11.600	8.160	3.650	2.890	1.160	0.552	0.506	0.151	0.221

3.2.3 Beaverlodge River at the Weir

High winter precipitation and low summer rainfall resulted in a hydrograph dominated by spring run off with no significant rainfall peaks in the open season. A snow melt-induced maximum instantaneous flow of 24.500 m^3/s occurred on May 10, and a minimum instantaneous flow of 0.000 m^3/s was recorded between September 8 and 16.

Monthly streamflow summary statistics for the Beaverlodge River at the weir for the 2019-2021 open seasons are summarized in Table 3-5. Hydrographs and mean daily streamflow summaries are included in Appendix B.

TABLE 3-5 June to September Minimum, Maximum, and Mean Monthly Discharge (m^3/s) for the Beaverlodge River at the Weir - 2019 to 2022

Year		May	June	July	August	September
2019	Minimum	n/c	0.245	0.732	2.479	1.027
	Mean	n/c	2.045	3.617	5.220	1.945
	Maximum	n/c	6.913	17.358	10.460	3.901
2020	Minimum	n/c	n/c	3.002	0.004	0.002
	Mean	n/c	n/c	20.385	1.016	0.007
	Maximum	n/c	n/c	59.846	3.662	0.024
2021	Minimum	0.530	0.019	0.006	0.001	0.001
	Mean	2.990	1.800	0.015	0.003	0.002
	Maximum	7.200	6.710	0.033	0.019	0.002
2022	Minimum	7.380	0.703	0.004	0.001	0.000
	Mean	14.300	3.210	0.131	0.005	0.002
	Maximum	24.500	7.640	0.763	0.012	0.009

n/c= not collected

3.3 Water Quality

Sondes continuously monitored in situ water quality parameters from June 23 to October 12, 2022. Raw data for all water quality parameters recorded by the continuous data loggers are provided in Appendix C and summarized in Table 3-6. Spot check water quality data at the established monitoring locations (Table 2-3; Figure 2-1) is summarized in Table 3-7.

3.3.1 Water Temperature

Water temperatures ranged from 6.8°C to 27.4°C within the study reach during the duration of the sonde deployment (Table 3-6). Mean daily water temperatures peaked on July 29 (24.3 °C) and decreased relatively steadily throughout the remainder of the monitoring period with occasional increases (Figure 3-2). Monthly average water temperatures were at there highest during the summer months (June, July, and August) with average monthly water temperatures of around 20°C. Similar water temperatures were recorded during the collection of spot check water quality measurements in June and August (Table 3-7). The final spot check measurements collected on October 12, 2022, were around 8°C at all monitoring locations, coinciding with the daily average water temperature (Figure 3-2).

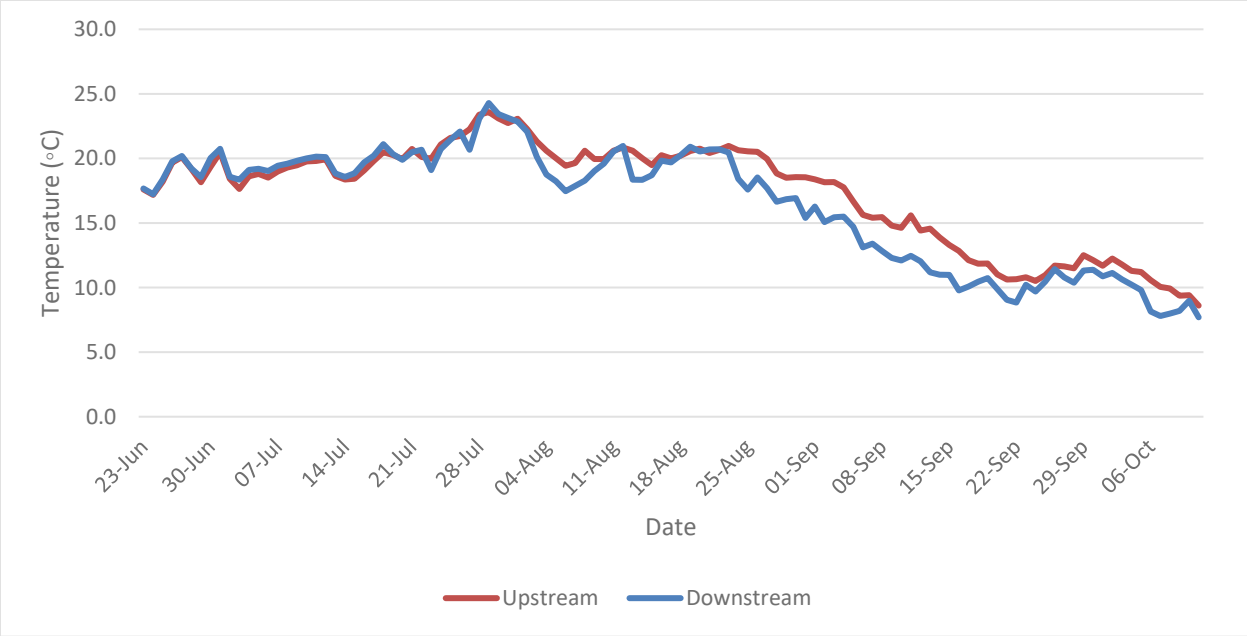

FIGURE 3-2 Daily Mean Water Temperature (June to October)

3.3.2 Dissolved Oxygen

DO concentrations recorded during the monitoring period ranged from 3.8 to 9.6 mg/L upstream, and 0.4 to 13.6 mg/l downstream (Table 3-6). Overall, daily average DO concentrations were commonly recorded above chronic guidelines for the protection of freshwater aquatic life (AEP 2018). A sudden decrease in the downstream daily average DO concentrations was observed in mid-August; concentrations were below the acute guidelines for the protection of aquatic life (AEP 2018). A slight decrease in average daily DO concentrations was again observed at the downstream sonde at the end of September. Generally, upstream, and downstream daily average DO concentrations displayed a similar trend throughout the monitoring period, except for the aforementioned decreases in daily average DO concentrations observed at the downstream sonde location. (Figure 3-3). Spot check measurements fell within the range of readings recorded by the sondes during the corresponding time periods (Table 3-7).

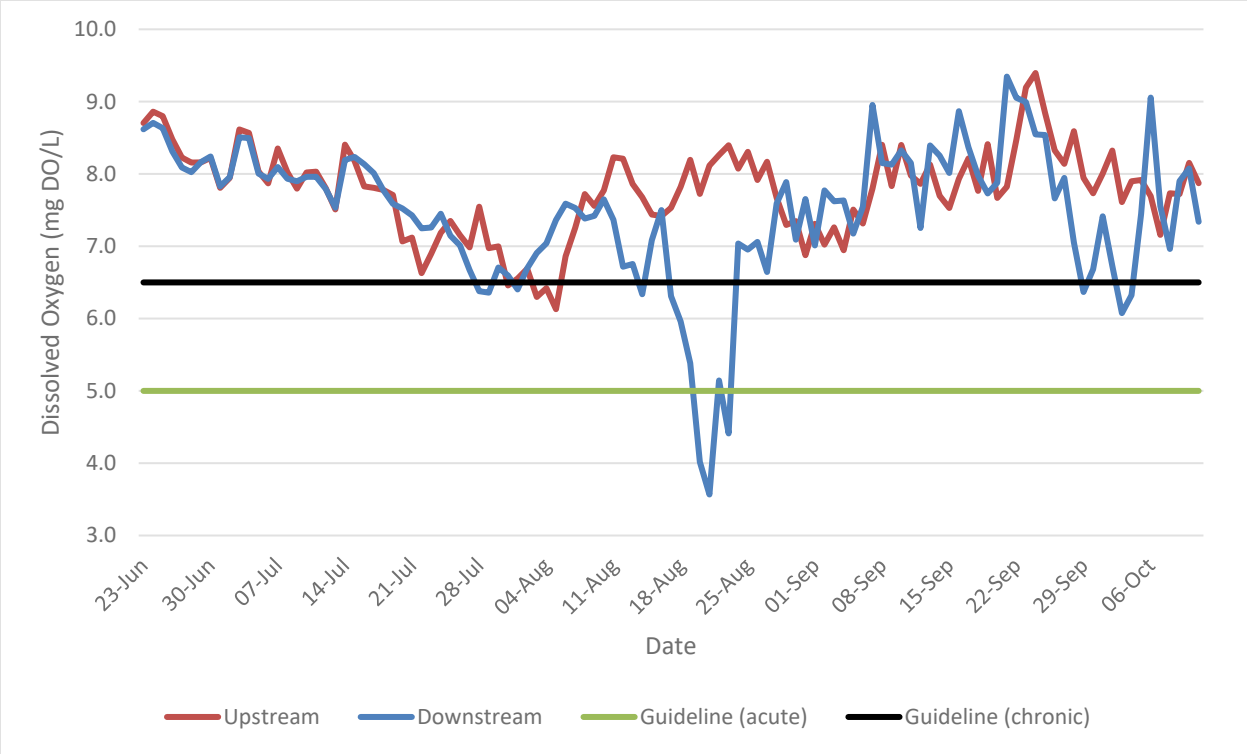

FIGURE 3-3 Daily Mean Dissolved Oxygen Concentration (June to October)

3.3.3 pH

pH levels recorded from the sondes during the monitoring period ranged from 7.4 to 9.8 (Table 3-6); spot check measurements fell within the range of readings recorded by the sondes during the corresponding time periods (Table 3-7). Overall, the average daily pH levels recorded within the upstream and downstream portions of the study area were relatively similar throughout the monitoring period, except for pH levels recorded within the middle of August at the downstream monitoring location; pH levels at this time displayed a downward trend before returning to similar pH levels observed upstream at the end of August (Figure 3-4).

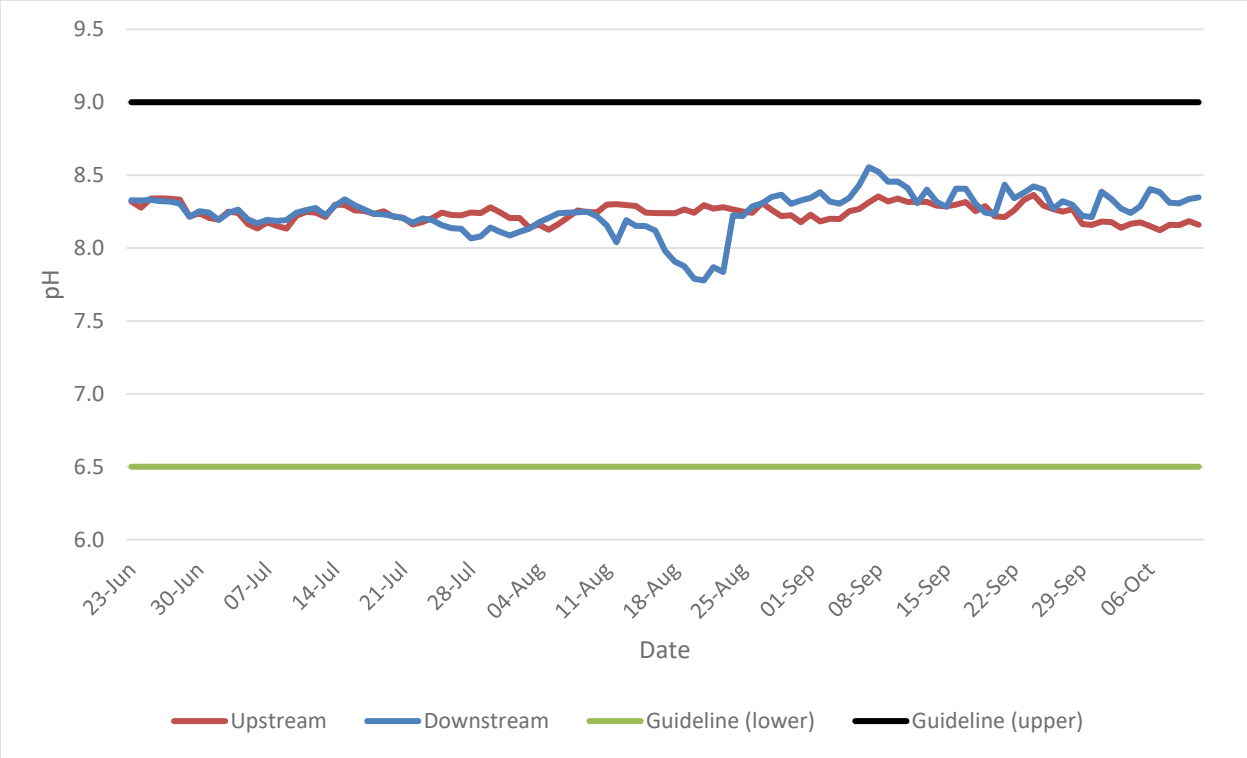

FIGURE 3-4 pH Daily Average (June to October)

3.3.4 Conductivity

SC ranged from 276.9 to 541.0 µS/cm at the upstream sonde and 278.3 to 1,591.5 µS/cm at the downstream sonde (Table 3-6). The lowest SC measurements at the upstream and downstream sonde were recorded within the month of June and coincide with spot measurements collected on June 24, 2021 (Tables 3-6 and 3-7). SC measurements gradually increased at the upstream sonde location throughout the monitoring period, with the maximum SC measurements recorded within the month of October (Table 3-6). Similarly, the final spot measurement collected on October 12, 2022, had similar SC readings (Tables 3-6 and 3-7).

The average daily SC measurements at the downstream sonde location displayed a similar trend compared to the upstream sonde until early July. For the remainder of the monitoring period, the average daily SC measurements displayed a large fluctuation, ranging from 311.70 to 1,591.5 µS/cm. Comparable SC readings were observed during the spot measurements (Table 3-7). The increase in SC readings at the downstream sonde location corresponds with low flow conditions. Additionally, low water conditions exposed groundwater seeps directly downstream of Riffle 2; likely contributing to an increase SC values.

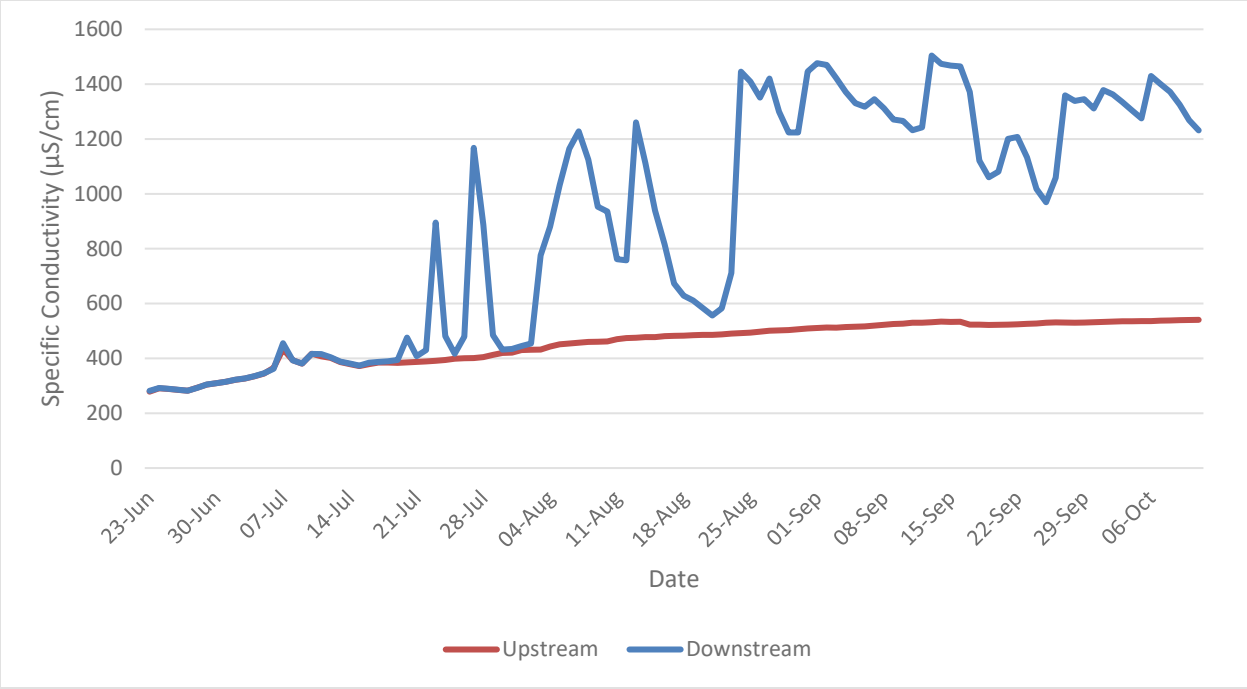

FIGURE 3-5 Specific Conductivity Daily Average (June to October)

3.3.5 Turbidity

NTU readings observed within the study reach ranged from 1.5 to 559 NTU at the upstream sonde, and 0.8 to 3,129 NTU at the downstream sonde during the entire monitoring period (Table 3-6). Spot check measurements did not exceed 20.8 NTU (Table 3-7). The average monthly NTU readings were highest during the month of October (80.3 NTU) downstream of Riffle 2 and upstream of Riffle 1 during the month of June (13.8 NTU; Table 3-6). All other months the average NTU readings at both sonde locations were below 18.2 NTU (Table 3-7).

The daily average NTU values frequently differed between sonde locations throughout the monitoring period (Figure 3-6). Overall, higher daily average NTU values downstream of Riffle 2 were observed, with frequent increases observed throughout the monitoring period (Figure 3-6).

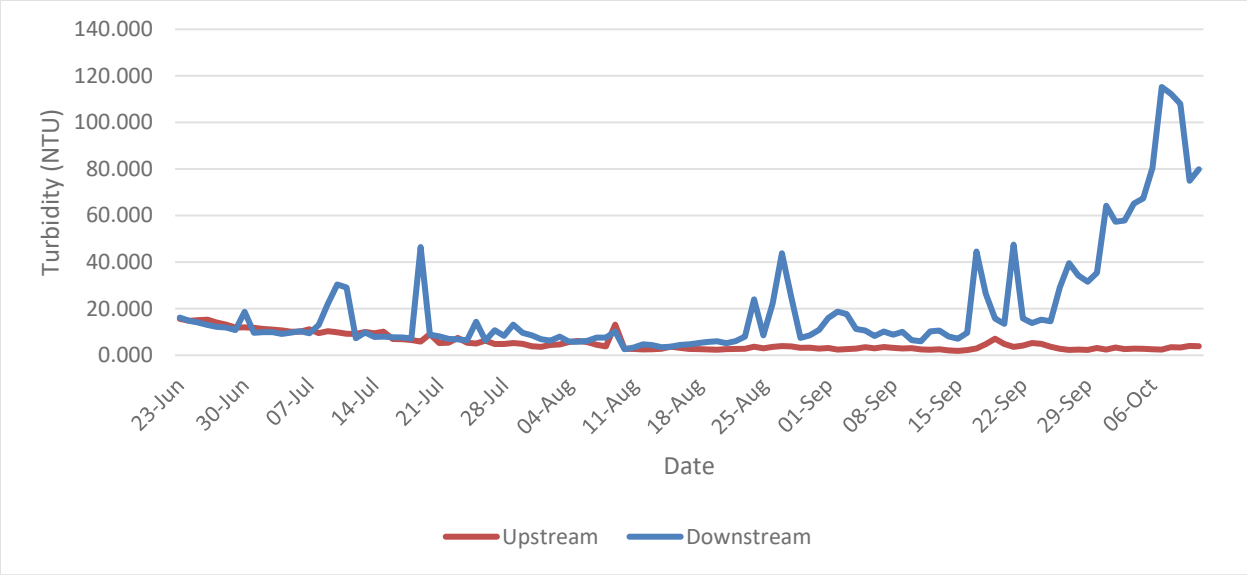

FIGURE 3-6 Turbidity Daily Average (July to October)

TABLE 3-6 2022 Sonde Data Summary

Month	Water Quality Parameter	Upstream			Downstream		
		Minimum	Maximum	Upstream Mean	Minimum	Maximum	Downstream Mean
June	pH	7.4	8.4	8.3	7.7	9.8	8.3
	Temperature (°C)	14.7	21.5	18.8	15.0	21.4	19.0
	EC (µS/cm)	235.2	281.1	257.4	240.0	289.7	259.3
	SPC (µS/cm)	276.9	315.6	292.2	278.3	315.2	292.9
	DO (mg/L)	7.5	9.6	8.4	7.7	9.4	8.3
	Turbidity (NTU)	8.2	37.2	13.9	7.7	870.3	13.8
July	pH	7.9	8.4	8.2	8.0	8.4	8.2
	Temperature (°C)	17.4	27.4	20.2	17.3	26.8	20.3
	EC (µS/cm)	277.3	437.2	349.3	280.2	1,174.6	417.3
	SPC (µS/cm)	311.2	460.3	384.3	311.7	1,243.9	456.8
	DO (mg/L)	4.1	10.5	7.6	5.0	8.9	7.6
	Turbidity (NTU)	2.8	158.4	8.0	3.2	3,129.4	12.0
August	pH	8.0	8.5	8.2	7.6	8.5	8.1
	Temperature (°C)	17.8	25.1	20.3	13.4	25.2	19.1
	EC (µS/cm)	390.2	462.1	432.3	406.2	1,345.9	844.2
	SPC (µS/cm)	422.4	510.2	475.5	434.3	1,520.4	961.5
	DO (mg/L)	3.8	10.8	7.5	0.4	11.8	6.7
	Turbidity (NTU)	2.0	559.2	3.8	0.8	543.7	9.1
September	pH	8.0	8.5	8.3	8.0	8.7	8.4
	Temperature (°C)	9.9	19.8	13.7	7.8	17.5	11.8
	EC (µS/cm)	372.3	467.9	410.8	677.7	1,268.4	962.7
	SPC (µS/cm)	507.3	539.4	524.7	925.4	1,591.5	1,284.8
	DO (mg/L)	5.3	11.6	8.0	3.2	13.6	8.0
	Turbidity (NTU)	1.5	65.6	3.3	3.1	493.4	18.2

Month	Water Quality Parameter	Upstream			Downstream		
		Minimum	Maximum	Upstream Mean	Minimum	Maximum	Downstream Mean
October	pH	8.0	8.4	8.2	8.2	8.5	8.3
	Temperature (°C)	8.2	14.0	10.7	6.9	12.3	9.3
	EC (µS/cm)	367.3	423.7	389.6	805.3	1,040.5	937.4
	SPC (µS/cm)	527.9	541.0	536.5	1,189.5	1,471.5	1,339.4
	DO (mg/L)	6.4	10.9	7.8	4.1	10.5	7.4
	Turbidity (NTU)	1.6	38.9	3.0	34.2	230.3	80.3

TABLE 3-7 Spot Check Water Quality Summary

Date	Water Quality Parameter	BL1	BL2	BL5	BL6
22-Apr-22	Temperature (°C)	3.4	3.5	4.0	3.9
	pH	7.6	6.9	8.1	7.1
	EC (µS/cm)	157.7	158.3	160.1	160.6
	SPC (µS/cm)	268.8	268.5	268.1	268.5
	Turbidity (NTU)	13.6	19.0	17.0	16.8
	DO (mg/L)	12.6	12.7	12.3	12.8
24-Jun-22	Temperature (°C)	17.1	17.1	17.3	17.2
	pH	7.5	7.7	8.0	8.0
	EC (µS/cm)	224.1	221.0	222.6	233.6
	SPC (µS/cm)	264.2	260.2	265.7	272.0
	Turbidity (NTU)	8.9	11.5	11.6	6.8
	DO (mg/L)	7.9	7.9	8.5	8.5
09-Aug-22	Temperature (°C)	18.8	18.8	19.8	17.9
	pH	7.9	8.0	8.2	7.9
	EC (µS/cm)	414.7	419.2	430.5	949.0
	SPC (µS/cm)	470.0	475.2	478.0	1,045.0
	Turbidity (NTU)	8.6	3.7	2.6	3.8
	DO (mg/L)	8.0	6.4	7.0	6.4
12-Oct-22	Temperature (°C)	8.1	7.9	7.9	7.1
	pH	7.7	7.5	7.5	8.0
	EC (µS/cm)	352.6	374.0	353.1	789.0
	SPC (µS/cm)	521.0	566.0	523.0	1,198.0
	Turbidity (NTU)	2.7	0.1	20.8	8.4
	DO (mg/L)	8.4	7.1	7.4	9.0

3.4 Fish Sampling

Fish captured within and around the riffle structures included Longnose Sucker, Redside Shiner, Trout Perch, and White Sucker; Redside Shiner were the most abundant species (Table 3-8). No sport fish were captured or observed during fish sampling. No fish were captured during angling effort.

TABLE 3-8 Electrofishing Fish Sampling Results

Species	Number Captured	Effort (sec)	CPUE (Fish/100 sec)
Longnose Sucker	2	1,114	0.179533
Redside Shiner	24	1,114	2.154399
Trout Perch	1	1,114	0.089767
White Sucker	4	1,114	0.359066

3.5 Fish Passage

3.5.1 Riffle Water Velocities

The fish passage design considered maximum flow velocities that resident fish can negotiate (i.e., fish burst speed or maximum speed for 10 seconds). This would account for short sections between resting locations within the fish passage structure (i.e., <1 m step between pools). Flow velocities to accommodate burst speeds for various sized fish are outlined below (Katapodis 1992); these velocities consider both anguilliform and subcarangiform swimming forms:

- 20 cm long fish – burst speed/maximum flow velocity is 1.20 m/s
- 25 cm long fish – burst speed/maximum flow velocity is 1.50 m/s
- 30 cm long fish – burst speed/maximum flow velocity is 1.85 m/s
- 40 cm long fish – burst speed/maximum flow velocity is 2.45 m/s

Point velocity measurements were completed during receding streamflow conditions with corresponding streamflow measurements of 2.8 m^3/s on April 22, 2.4 m^3/s on June 23, and 0.007 m^3/s on August 9 (Tables 3-9 and 3-10). Velocities at the riffles are expected to decrease during times of high flow conditions (e.g., bankfull flow) due to an increase in cross-sectional area. However, velocity measurements during times of high flow across the riffles were not attempted due to unsafe access conditions.

Velocity measurements follow a vertical velocity profile where velocities decrease toward the channel bottom. Point velocity measurements at the surface of Riffle 1 ranged from 1.9 m/s on June 23 to 0.3 m/s on April 22, while the bottom water column measurements ranged from 0.2 m/s to 1.1 m/s on April 22 (Table 3-9). On Riffle 2, surface point velocities ranged from 0.4 m/s on April 22 to 1.5m/s on June 23. Bottom velocities within Riffle 2 ranged from 0.2 m/s on April 22 to 1.3 m/s on June 23. (Table 3-10). In general, spot flow measurements within both Riffle structures were found to be higher in velocities within the upper and middle sections of the riffle structures. Overall, both riffle structures experienced

similar surface velocities. At the surface, point velocities exceeded the above listed burst speeds/maximum flow velocity outlined above (Tables 3-9 and 3-10), at the middle of the structures along the edge of Riffle 1 on April 22 (1.5 m/s) and June 23 (1.9 m/s), and at Riffle 2 on June 23 at the upstream (1.5 m/s) and middle (1.5 m/s) along the surface, as well as along the bottom within the middle of structure (1.3 m/s).

Pools and back water areas were present throughout the riffle structures, providing habitat for fish to utilize for resting as they move up the riffles. As detailed in Section 3.2.3, insufficient flow across Riffle 1 from July 17 to October 12 made fish passage unlikely during this period.

TABLE 3-9 Riffle 1 Point Velocity Summary Data

Transect Location Within the Riffle Structure	Water Column Location	22-Apr-22 Measurement Location Within Riffle Structure (m/s)			23-Jun-22 Measurement Location Within Riffle Structure (m/s)			09-Aug-22 Measurement Location Within Riffle Structure (m/s)
		25%	50%	75%	25%	50%	75%	50%
Upstream	Surface	0.262	0.820	0.912	0.492	0.686 m/s	0.445	0.013
	Bottom	0.199	0.899	0.950	0.433	0.523 m/s	0.480	-
Middle	Surface	1.459	-	0.537	0.781	-	1.899	0.030
	Bottom	1.141	-	0.502	0.596	-	1.047	-
Downstream	Surface	0.585	-	0.939	1.111	-	1.029	0.010
	Bottom	0.370	-	0.810	1.026	-	0.709	-
Streamflow at time of velocity measurements (m^3/s)		2.769			2.431			0.007

Note:
Measurements were started at the right bank (25%), centre (50%), and left bank (75%).

TABLE 3-10 Riffle 2 Point Velocity Summary Data

Transect Location Within the Riffle Structure	Water Column Location	22-Apr-22 Measurement Location Within Riffle Structure (m/s)		23-Jun-22 Measurement Location Within Riffle Structure (m/s)		09-Aug-22 Measurement Location Within Riffle Structure (m/s)	
		25%	75%	25%	50%	75%	50%
Upstream	Surface	1.110	0.582	1.029	-	1.456	-
	Bottom	0.850	0.439	1.135	-	0.822	-
Middle	Surface	1.010	1.020	0.707	-	1.517	-
	Bottom	0.786	0.949	0.663	-	1.335	-
Downstream	Surface	1.060	0.360	1.03	-	0.662	-
	Bottom	0.962	0.164	0.838	-	0.737	-
Streamflow at time of velocity measurements (m^3/s)		2.769		2.431		0.007	

Note:
Measurements were started at the right bank (25%), centre (50%), and left bank (75%).

4 DISCUSSION

Channel Conditions/Engineering Assessment

Both riffle structures were observed to be stable with no significant movement of cobble or boulder material that would reduce the functionality of the riffles. In 2020, the right downstream bank (south bank) between Riffles 1 and 2 (Figure 2-1) saw extensive erosion, which was documented in the 2020 monitoring report (Matrix 2020b). Higher flows observed in 2022 compared to 2021 (daily maximum of about 25 m^3/s in 2022 and about 7.2 m^3/s in 2021) displaced soil and vegetation that slumped onto the right side of Riffle 2 in 2020. While there was soil and vegetation movement in 2022, there was no/minimal observed movement of the riprap compared to 2021, so the effectiveness of Riffle 2 has not changed since 2020. The right bank remains unstable with large areas of vegetation and soil slumping into the river. This continued erosion is also posing a risk to the functionality of Riffle 2, as discussed within the 2020 Monitoring Report (Matrix 2020b) and Table 3-1.

Continued erosion of the right bank could result in formation of a new channel thalweg adjacent to Riffle 2, allowing flow to bypass the riffle during low flow periods. If a new channel forms between the riffle and right bank location, water levels in the large pool located between Riffle 1 and Riffle 2 may lower to an elevation that is closer to pre-construction conditions. Lower water levels would potentially expose all of the toe/run out of Riffle 1, which could increase the distance that fish are required to swim to pass the riffle up to 20 m. The likelihood of the riffle being bypassed is unknown at this time. If the riffle is bypassed and water levels are reduced, fish may still be able to pass a longer riffle structure at Riffle 1.

Hydrology

Previous surveys determined that the Q-$fish_{min}$ flow required to overtop the riffle structures and allow fish passage was 0.0399 m^3/s. Based on this level and the instream monitoring results, flow in the Beaverlodge River was below Q-$fish_{min}$ starting on July 19, 2022, and continued through the rest of the season.

Water Quality

Daily average DO concentrations were highly variable at each monitoring station throughout the monitoring period; however, daily averages were similar to spot measurements gathered during the corresponding time period. Overall, naturally occurring DO concentrations at both upstream and downstream monitoring locations were above the chronic guidelines for the protection of freshwater aquatic life (AEP 2018), except for isolated events that were generally short in duration. Low DO concentrations can be attributed to decreasing flow (see Section 3.2) and stagnating water conditions observed later in summer. Additionally, low flow conditions contribute to an increase in algae build-up and debris collection on the sondes. To negate such effects on the sondes, automatic wipers were installed at the beginning of the 2022 monitoring period; however, build up on the sonde's probes can occur rapidly and clearing of algae and debris may not be instantaneous and require further cleaning cycles by the automatic wiper. Efforts were made to ensure the quality of the readings were accurate during each site visit by cleaning sonde's probes of debris and algae build-up, comparing sonde readings to spot

measurements well in the field, and calibrating the sondes as needed. As observed in previous monitoring years, readings measured by the multiparameter sondes were similar to those gathered during manual spot checks.

Daily average SP displayed large variations at the downstream sonde monitoring location, with readings being significantly higher when compared to the upstream monitoring location. An increase in SP at the downstream monitoring location began in mid-July and continued throughout the remainder of the monitoring period. The variability and increase in SP readings correspond with receding water levels (see Section 3.2) observed during the summer months. In addition, groundwater seeps were identified directly downstream of Riffle 2 during the July, August, and October field visits. It is likely stagnant water and seeping groundwater downstream of Riffle 2 contributed to an increase in SP downstream of Riffle 2. Overall, spot measurements and sonde data identified suitable water quality parameters within the study reach to support resident fish species throughout the monitoring period.

Fish Habitat Conditions

Fish habitat conditions within the study reach have remained consistent throughout the monitoring years. The study reach has not experienced high velocities flows since the 1:20 year flood in 2020, leaving the habitat within the study reach largely unchanged

Overhead fish habitat cover along the riparian areas is provided by overhanging vegetation from various shrubs and grasses, with sections of uncut banks. Instream habitat features such as instream vegetation, depth of water, colour of water, and the accumulation of large woody debris along the shoreline remain present. Within the riffle structures fish habitat cover is provide surface turbulence, boulders material, and the accumulation of woody debris observed periodically throughout the monitoring period, as observed in previous monitoring years

Forage fish species were primarily captured directly downstream of each riffle structure and were frequently observed in groups throughout the monitoring period. Fish habitat directly downstream of the riffle structures consists of boulder substrate material, woody debris, and instream vegetation, providing refuge from deeper areas of the study reach, ideal for forage and juvenile sport and sucker fish species. Sucker species were captured within deeper portions of the study reach and were found to not be staging directly downstream of each riffle structure. No PIT tags were present within any of the fish captured.

Overwintering capacity in the study reach continues to be suitable from a volume perspective, with the deep areas of run upstream of the weir and large pool habitat between Riffle 1 and 2. However, as observed in previous monitoring years, a declining flow rate within the Beaverlodge River occurs throughout the summer months, and a correlating decline in water quality conditions would likely continue to follow the same pattern through the late fall and winter. Overwintering habitat conditions are likely unsuitable to support species such as Arctic Grayling and Bull Trout. Species such as White Sucker and Northern Pike are known to be tolerant of lower DO concentrations (Ford et al. 1995) and may still be present in these reaches over winter.

Fish Passage

Riffle velocities in 2022 met the flow requirements to accommodate the burst speeds for various sized anguilliform and subcarangiform swimming forms, including Arctic Grayling, Northern Pike, and sucker species. As documented in previous monitoring years, back water eddies and pools within the riffles were present, providing resting areas for fish and reducing the overall distance and gradient fish are required to swim at maximum burst speed. Peak flow occurred in May, then flow rates gradually receding until July 17, 2022, when water levels became insufficient for fish passage. It is likely that water levels will remain insufficient for fish passage until freshet of 2023.

Although the water level was too low to provide fish passage through the riffle structures, flow was still observed to be directed toward the centre of the riffles as intended, and water was flowing within the interstices of the boulder and cobble material of the riffles. These flow conditions would still allow some small fish (e.g., fry, forage fish) to drift downstream. The fact that the water level was insufficient for fish passage is not a result of the riffle design, but a result of low flow conditions that are experienced regularly in the Beaverlodge River.

5 RECOMMENDATIONS

Monitoring activities will continue into the final year of monitoring in 2023, as required in the Beaverlodge River monitoring plan (Matrix 2017b).

6 REFERENCES

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APPENDIX A
Site Photographs

APPENDIX A1
Comparison Photographs

1. Aerial View of the original Beaverlodge Weir Structure and Fish Ladder (September 2008).

2. Viewing original Beaverlodge Weir Structure and Fish Ladder, facing Upstream (September 2009).

3. Viewing inside of fish ladder prior to removal of the structure (September 2018).

4. Viewing inside of fish ladder prior to removal of the structure (September 2018).

5. Riffle 1, facing left bank immediately after construction (September 2018).

6. Riffle 1, facing downstream during fall monitoring (October 2019).

7. Riffle 1, facing downstream during fall monitoring (October 2020).

8. Riffle 1, facing left bank during fall monitoring (October 2021).

9. Riffle 1, facing downstream during fall monitoring (October 2022).

10. Riffle 2, facing upstream immediately after construction (September 2018).

11. Riffle 2, facing downstream during fall monitoring (October 2019).

12. Riffle 2, facing left bank during fall monitoring (October 2020).

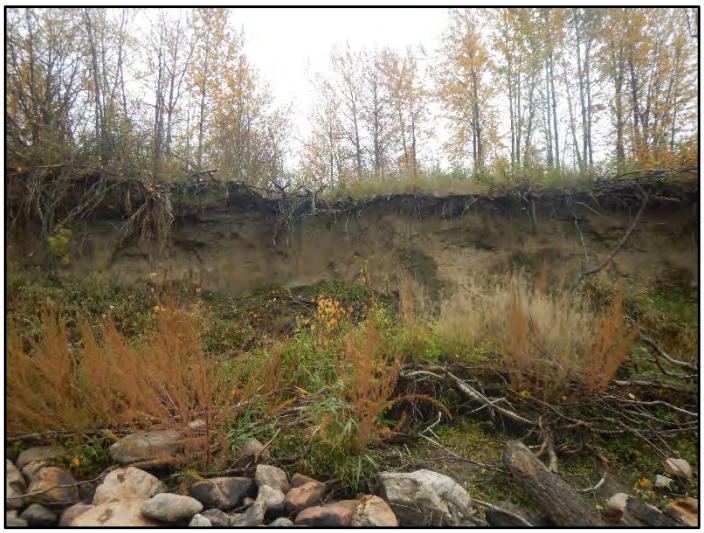
13. Riffle 2, facing left bank during fall monitoring (October 2021).

14. Riffle 2, facing left bank during fall monitoring (October 2022).

15. Riffle 2, facing right bank during construction (September 2018).

16. Eroded right bank at Riffle 2 (June 2019).

17. Eroded right bank at Riffle 2 (October 2020).



18. Eroded right bank at Riffle 2 (October 2021).

19. Eroded right bank at Riffle 2 (October 2022).

APPENDIX A2
5 Year Monitoring Locations

1. BL1; facing upstream from Riffle 1 (April 22, 2022).

2. BL1; facing upstream from Riffle 1 (June 23, 2022).

3. BL1; facing upstream from Riffle 1 (August 9, 2022).

4. BL1; facing upstream from Riffle 1 (October 9, 2022).

5. BL1; facing downstream at Riffle 1 (April 22, 2022).

6. BL1; facing downstream at Riffle 1 (June 23, 2022).

7. BL1; facing downstream at Riffle 1 (August 9, 2022).

8. BL1; facing downstream at Riffle 1 (October 9, 2022).

9. BL2; facing upstream at Riffle 1 (April 22, 2022).

10. BL2; facing upstream at Riffle 1 (June 23, 2022).

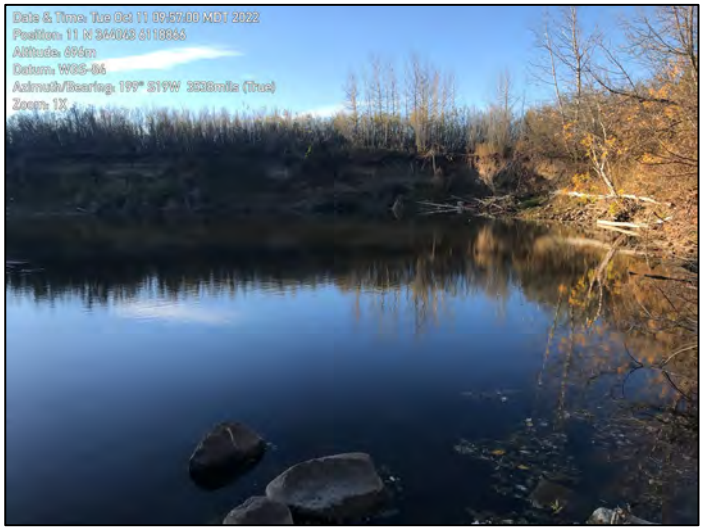
11. BL 2; facing upstream at Riffle 1 (August 9, 2022).

12. BL 2; facing upstream at Riffle 1 (October 9, 2022).

13. BL 2; facing downstream from Riffle 1 (April 22, 2022).

14. BL2; facing downstream from Riffle 1 (June 23, 2022).

15. BL2; facing downstream from Riffle 1 (August 9, 2022).



16. BL2; facing downstream from Riffle 1 (October 9, 2022).

17. BL 3; facing upstream towards Riffle 1 (April 22, 2022).

18. BL 3; facing upstream towards Riffle 1 (June 23, 2022).

19. BL 3; facing upstream towards Riffle 1 (August 9, 2022).

20. BL 3; facing upstream towards Riffle 1 (October 9, 2022).

21. BL 3; facing downstream towards Riffle 2 (April 22, 2022).

22. BL 3; facing downstream towards Riffle 2 (June 23, 2022).

23. BL 3; facing downstream towards Riffle 2 (August 9, 2022).

24. BL 3; facing downstream towards Riffle 2 (October 9, 2022).

25. BL 5; facing upstream from Riffle 2 (April 22, 2022).

26. BL 5; facing upstream from Riffle 2 (June 23, 2022).

27. BL 5; facing upstream from Riffle 2 (August 9, 2022).

28. BL5; facing upstream from Riffle 2 (October 9, 2022).

29. BL 5; facing downstream from the top of Riffle 2 (April 22, 2022).

30. BL 5; facing downstream from the top of Riffle 2 (June 23, 2022).

31. BL 5; facing downstream from the top of Riffle 2 (August 9, 2022).

32. BL 5; facing downstream from the top of Riffle 2 (October 9, 2022).

33. BL 6; facing upstream from the bottom of Riffle 2 (April 22, 2022).

34. BL 6; facing upstream from the bottom of Riffle 2 (June 23, 2022).

35. BL 6; facing upstream from the bottom of Riffle 2 (August 9, 2022).

36. BL 6; facing upstream from the bottom of Riffle 2 (October 9, 2022).

37. BL 6; facing downstream from the bottom of Riffle 2 (April 22, 2022).

38. BL 6; facing downstream from the bottom of Riffle 2 (June 23, 2022).

39. BL 6; facing downstream from the bottom of Riffle 2 (August 9, 2022).

40. BL 6; facing downstream from the bottom of Riffle 2 (October 9, 2022).

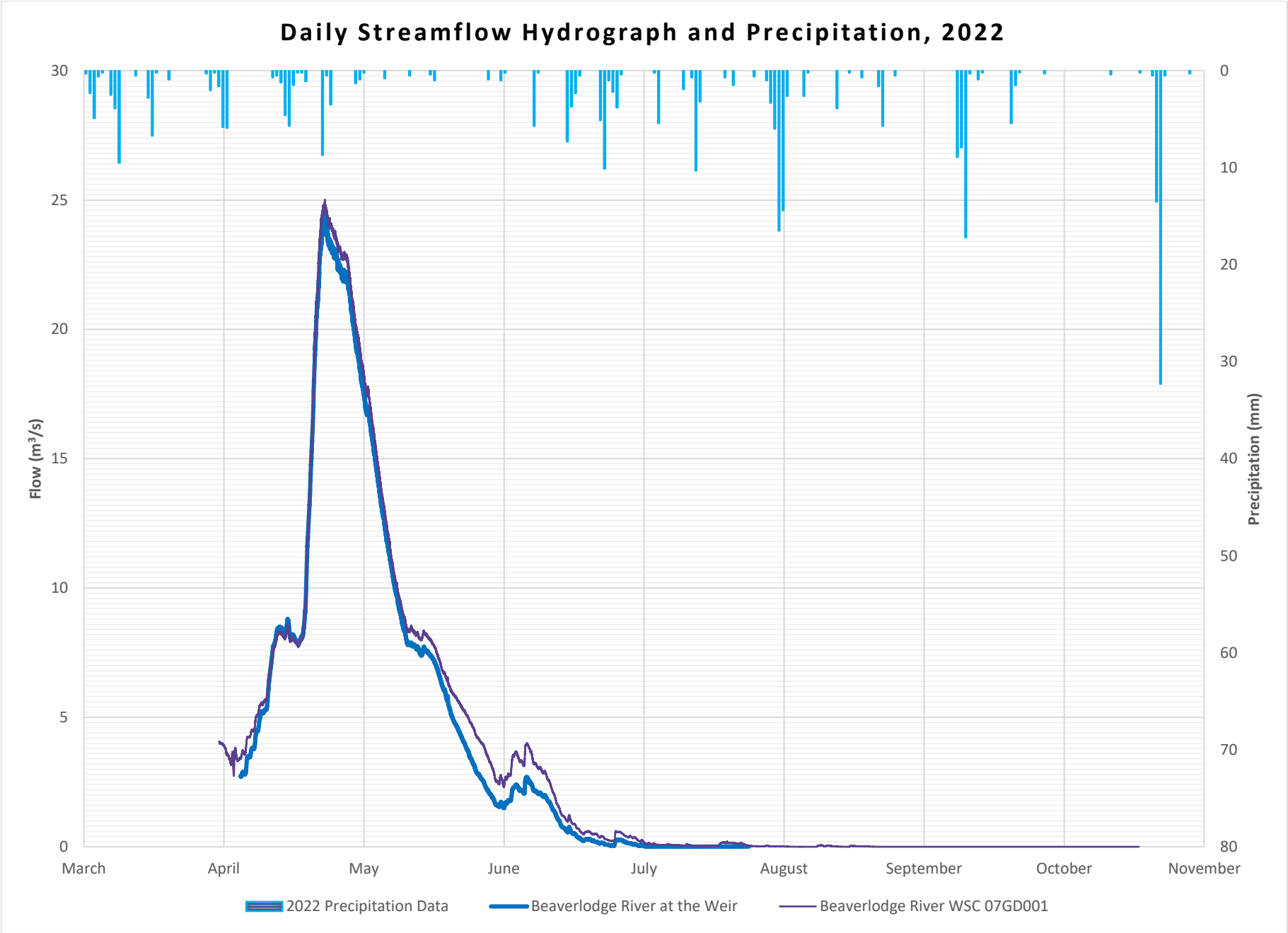
41. Monitoring camera at Riffle 1, viewing from the left downstream bank (June 24, 2022).

42. Monitoring camera at Riffle 1, viewing from the left downstream bank (August 22, 2022).

43. Monitoring camera at Riffle 2, viewing from the right downstream bank (June 28, 2022).

44. Monitoring camera at Riffle 2, viewing from the right downstream bank (July 10, 2022).

APPENDIX B
Hydrology


Daily Streamflow Hydrograph and Precipitation, 2022
Flow (m³/s)
Precipitation (mm)
30
25
20
15
10
5
0
0
10
20
30
40
50
60
70
80
March
April
May
June
July
August
September
October
November
2022 Precipitation Data
Beaverlodge River at the Weir
Beaverlodge River WSC 07GD001

Daily Statistic by Year - Mean

Beaverlodge River at the Weir

Period Selected: 2022-01-01 00:00 - 2022-12-09 23:59

Source Data: Discharge.Discharge@2199-01, Beaverlodge River
UTC Offset: -07:00, Start Time: 2019-05-31 13:30:00, End Time: 2022-10-10 22:15:00

Units: m^3/s
Data Coverage Threshold: 80%

Year: 2022

Max: *** Min: *** Mean: ***

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	***	***	***	***	8.39	7.55	0.647	0.00616	0.00119	0.00395		
2	***	***	***	***	8.51	7.33	0.576	0.0069	0.000878	0.00413		
3	***	***	***	***	8.14	6.97	0.429	0.00872	0.00077	0.00408		
4	***	***	***	***	7.95	6.39	0.288	0.00838	0.000651	0.00402		
5	***	***	***	***	8.05	5.89	0.273	0.00706	0.000462	0.00385		
6	***	***	***	***	9.80	5.25	0.27	0.00576	0.000266	0.0036		
7	***	***	***	***	14.1	4.77	0.205	0.0055	0.0000938	0.00365		
8	***	***	***	***	18.9	4.41	0.147	0.00732	0.00	0.00378		
9	***	***	***	***	22.5	4.00	0.113	0.00728	0.00	0.00372		
10	***	***	***	***	24.0	3.58	0.0645	0.0074	0.00	0.00373		
11	***	***	***	***	23.4	3.17	0.0967	0.00674	0.00			
12	***	***	***	***	23.0	2.80	0.263	0.00658	0.00			
13	***	***	***	***	22.6	2.53	0.222	0.00603	0.00			
14	***	***	***	***	22.1	2.18	0.151	0.00561	0.00			
15	***	***	***	***	21.8	1.91	0.113	0.00496	0.00			
16	***	***	***	***	20.5	1.61	0.0686	0.00482	0.00			
17	***	***	***	***	19.2	1.62	0.0449	0.00456	0.00105			
18	***	***	***	***	18.1	1.68	0.0131	0.00436	0.00672			
19	***	***	***	***	17.0	1.95	0.00906	0.00424	0.0047			
20	***	***	***	***	16.1	2.34	0.00769	0.00408	0.00405			
21	***	***	***	***	14.8	2.20	0.00691	0.00386	0.00405			
22	***	***	***	***	13.5	2.38	0.00662	0.00341	0.00525			
23	***	***	***	2.95	12.3	2.51	0.00623	0.00314	0.00505			
24	***	***	***	3.55	11.2	2.19	0.00631	0.00295	0.00429			
25	***	***	***	3.98	10.1	2.07	0.00577	0.0046	0.00396			
26	***	***	***	4.76	9.26	1.97	0.00545	0.00479	0.00382			
27	***	***	***	5.23	8.44	1.77	0.00527	0.00394	0.00371			
28	***	***	***	6.02	7.86	1.45	0.00518	0.0033	0.00363			
29	***		***	7.55	7.80	1.10	0.0051	0.00286	0.00397			
30	***		***	8.34	7.64	0.779	0.00609	0.0024	0.00398			
31	***		***		7.53		0.00641	0.00174				
Max	***	***	***	***	24.5	7.64	0.763	0.0117	0.00864	***		
Min	***	***	***	***	7.38	0.703	0.00434	0.00131	0.00	***		
Mean	***	***	***	***	14.3	3.21	0.131	0.00514	0.00208	***		

DISCLAIMER - AQUARIUS is the leading software suite to acquire, process, model, and publish water data. Environmental monitoring agencies worldwide trust AQUARIUS to produce accurate water information in real-time. A modern design delivers the latest water science in an intuitive experience.

Daily Statistic by Year - Mean

Beaverlodge River at the Weir

Period Selected: 2019-01-01 00:00 - 2022-12-31 23:59

Source Data: Discharge.Discharge@2199-01, Beaverlodge River
UTC Offset: -07:00, Start Time: 2019-05-31 13:30:00, End Time: 2022-08-09 11:15:00

Units: m^3/s
Data Coverage Threshold: 80%

Year: 2019

Max: *** Min: *** Mean: ***

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1						3.07	1.24	5.85	3.18	***	***	***
2						2.55	1.83	5.51	2.83	***	***	***
3						2.09	2.38	4.36	2.52	***	***	***
4						1.78	2.43	3.53	2.25	***	***	***
5						1.69	2.15	3.05	1.94	***	***	***
6						1.62	2.07	2.84	1.85	***	***	***
7						3.10	1.81	2.38	1.45	***	***	***
8						6.43	1.73	2.25	1.23	***	***	***
9						5.74	2.54	2.35	1.18	***	***	***
10						5.01	2.50	2.49	1.16	***	***	***
11						4.19	2.39	2.75	1.35	***	***	***
12						3.66	2.22	2.96	1.57	***	***	***
13						3.21	2.30	3.03	1.86	***	***	***
14						2.70	2.18	2.66	2.00	***	***	***
15						2.52	1.84	2.47	1.94	***	***	***
16						2.17	1.47	2.34	1.85	***	***	***
17						2.02	1.24	2.22	1.79	***	***	***
18						1.73	1.25	5.46	1.72	***	***	***
19						1.40	1.15	9.80	1.79	***	***	***
20						1.26	1.18	9.08	1.93	***	***	***
21						1.16	1.48	8.57	1.68	***	***	***
22						1.09	1.38	8.16	1.60	***	***	***
23						0.996	1.76	7.97	1.45	***	***	***
24						0.843	3.59	7.84	1.37	***	***	***
25						0.718	15.3	7.48	1.41	***	***	***
26						0.801	12.4	6.94	1.44	***	***	***
27						0.727	9.69	6.21	1.61	***	***	***
28						0.915	8.52	5.45	1.67	***	***	***
29						1.01	7.72	4.68	1.70	***	***	***
30						1.10	7.08	4.03	1.66	***	***	***
31					3.42		6.40	3.61		***		***
Max					3.58	7.04	16.9	10.0	3.41	***	***	***
Min					3.25	0.663	1.03	2.14	1.11	***	***	***
Mean					3.42	2.24	3.66	4.78	1.77	***	***	***

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Daily Statistic by Year - Mean

Beaverlodge River at the Weir

Period Selected: 2019-01-01 00:00 - 2022-12-31 23:59

Source Data: Discharge.Discharge@2199-01, Beaverlodge River
UTC Offset: -07:00, Start Time: 2019-05-31 13:30:00, End Time: 2022-08-09 11:15:00

Units: m^3/s
Data Coverage Threshold: 80%

Year: 2020

Max: *** Min: *** Mean: ***

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	***	***	***	***	***	***	3.32	3.44	0.00471	***	***	***
2	***	***	***	***	***	***	16.5	3.05	0.00401	***	***	***
3	***	***	***	***	***	***	28.1	2.86	0.00332	***	***	***
4	***	***	***	***	***	***	35.5	2.60	0.00317	***	***	***
5	***	***	***	***	***	***	37.2	2.26	0.00323	***	***	***
6	***	***	***	***	***	***	43.0	2.00	0.00329	***	***	***
7	***	***	***	***	***	***	53.6	1.75	0.00309	***	***	***
8	***	***	***	***	***	***	58.6	1.69	0.00288	***	***	***
9	***	***	***	***	***	***	50.9	1.62	0.00299	***	***	***
10	***	***	***	***	***	***	40.8	1.52	0.00316	***	***	***
11	***	***	***	***	***	***	33.7	1.24	0.00334	***	***	***
12	***	***	***	***	***	***	28.4	1.22	0.00398	***	***	***
13	***	***	***	***	***	***	24.1	1.05	0.00405	***	***	***
14	***	***	***	***	***	***	20.7	0.88	0.00442	***	***	***
15	***	***	***	***	***	***	18.1	0.771	0.0048	***	***	***
16	***	***	***	***	***	***	16.0	0.665	0.00468	***	***	***
17	***	***	***	***	***	***	14.2	0.656	0.00444	***	***	***
18	***	***	***	***	***	***	12.9	0.458	0.00399	***	***	***
19	***	***	***	***	***	***	11.7	0.349	0.0038	***	***	***
20	***	***	***	***	***	***	10.9	0.283	0.00435	***	***	***
21	***	***	***	***	***	***	10.3	0.245	0.00691	***	***	***
22	***	***	***	***	***	***	9.46	0.172	0.00893	***	***	***
23	***	***	***	***	***	***	8.70	0.131	0.00886	***	***	***
24	***	***	***	***	***	***	7.98	0.108	0.0175	***	***	***
25	***	***	***	***	***	***	7.27	0.0937	0.019	***	***	***
26	***	***	***	***	***	4.00	6.50	0.118	0.0186	***	***	***
27	***	***	***	***	***	3.47	5.88	0.109	0.0109	***	***	***
28	***	***	***	***	***	3.19	5.35	0.0972	0.0082	***	***	***
29	***	***	***	***	***	2.98	4.68	0.0364	0.00692	***	***	***
30	***		***	***	***	2.98	4.05	0.0153	0.018	***	***	***
31	***		***		***		3.63	0.00687		***		***
Max	***	***	***	***	***	***	59.8	3.66	0.024	***	***	***
Min	***	***	***	***	***	***	3.00	0.00416	0.00237	***	***	***
Mean	***	***	***	***	***	***	20.4	1.02	0.00665	***	***	***

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Daily Statistic by Year - Mean

Beaverlodge River at the Weir

Period Selected: 2019-01-01 00:00 - 2022-12-31 23:59

Source Data: Discharge.Discharge@2199-01, Beaverlodge River
UTC Offset: -07:00, Start Time: 2019-05-31 13:30:00, End Time: 2022-08-09 11:15:00

Units: m^3/s
Data Coverage Threshold: 80%

Year: 2021

Max: *** Min: *** Mean: ***

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	***	***	***	***	1.10	6.63	0.0202	0.00575	0.00225	0.00255	***	***
2	***	***	***	***	1.18	6.40	0.029	0.00583	0.00215	0.00265	***	***
3	***	***	***	***	1.21	6.00	0.0223	0.0054	0.00209	0.00231	***	***
4	***	***	***	***	1.16	5.52	0.0205	0.00475	0.00196	0.00226	***	***
5	***	***	***	***	1.02	4.74	0.0168	0.00493	0.00186	0.0031	***	***
6	***	***	***	***	0.855	3.99	0.0182	0.00472	0.00147	0.00319	***	***
7	***	***	***	***	0.715	3.30	0.0194	0.00355	0.00124	***	***	***
8	***	***	***	***	0.675	3.03	0.0171	0.00319	0.00133	***	***	***
9	***	***	***	***	0.681	2.55	0.017	0.00331	0.00275	***	***	***
10	***	***	***	***	0.581	2.17	0.0172	0.00301	0.00239	***	***	***
11	***	***	***	***	0.56	1.93	0.0166	0.00307	0.00225	***	***	***
12	***	***	***	***	0.653	1.54	0.0159	0.003	0.00219	***	***	***
13	***	***	***	***	0.598	1.19	0.0145	0.00268	0.00209	***	***	***
14	***	***	***	***	0.653	0.944	0.0144	0.00216	0.00232	***	***	***
15	***	***	***	***	0.645	0.775	0.0141	0.00195	0.00232	***	***	***
16	***	***	***	***	0.784	0.615	0.0153	0.00165	0.00222	***	***	***
17	***	***	***	***	0.973	0.556	0.0185	0.00119	0.00245	***	***	***
18	***	***	***	***	1.07	0.482	0.0167	0.000974	0.00293	***	***	***
19	***	***	***	***	2.68	0.354	0.0211	0.000978	0.00271	***	***	***
20	***	***	***	***	4.15	0.31	0.0177	0.00106	0.00242	***	***	***
21	***	***	***	***	5.22	0.237	0.0164	0.00109	0.00228	***	***	***
22	***	***	***	***	5.82	0.155	0.0148	0.0058	0.00207	***	***	***
23	***	***	***	***	6.04	0.165	0.0114	0.0104	0.00188	***	***	***
24	***	***	***	***	6.67	0.157	0.00983	0.00331	0.00197	***	***	***
25	***	***	***	***	7.12	0.0626	0.00927	0.00247	0.00202	***	***	***
26	***	***	***	***	7.07	0.0262	0.0088	0.00218	0.00245	***	***	***
27	***	***	***	***	6.75	0.0253	0.00795	0.00201	0.00286	***	***	***
28	***	***	***	***	6.39	0.0239	0.00762	0.00202	0.0027	***	***	***
29	***		***	***	6.48	0.0235	0.00733	0.00187	0.00247	***	***	***
30	***		***	0.999	6.53	0.0204	0.00694	0.00176	0.00264	***	***	***
31	***		***		6.72		0.00627	0.00212		***		***
Max	***	***	***	***	7.20	6.71	0.033	0.0201	0.00326	***	***	***
Min	***	***	***	***	0.53	0.0192	0.00569	0.000856	0.001	***	***	***
Mean	***	***	***	***	2.99	1.80	0.0151	0.00317	0.00222	***	***	***

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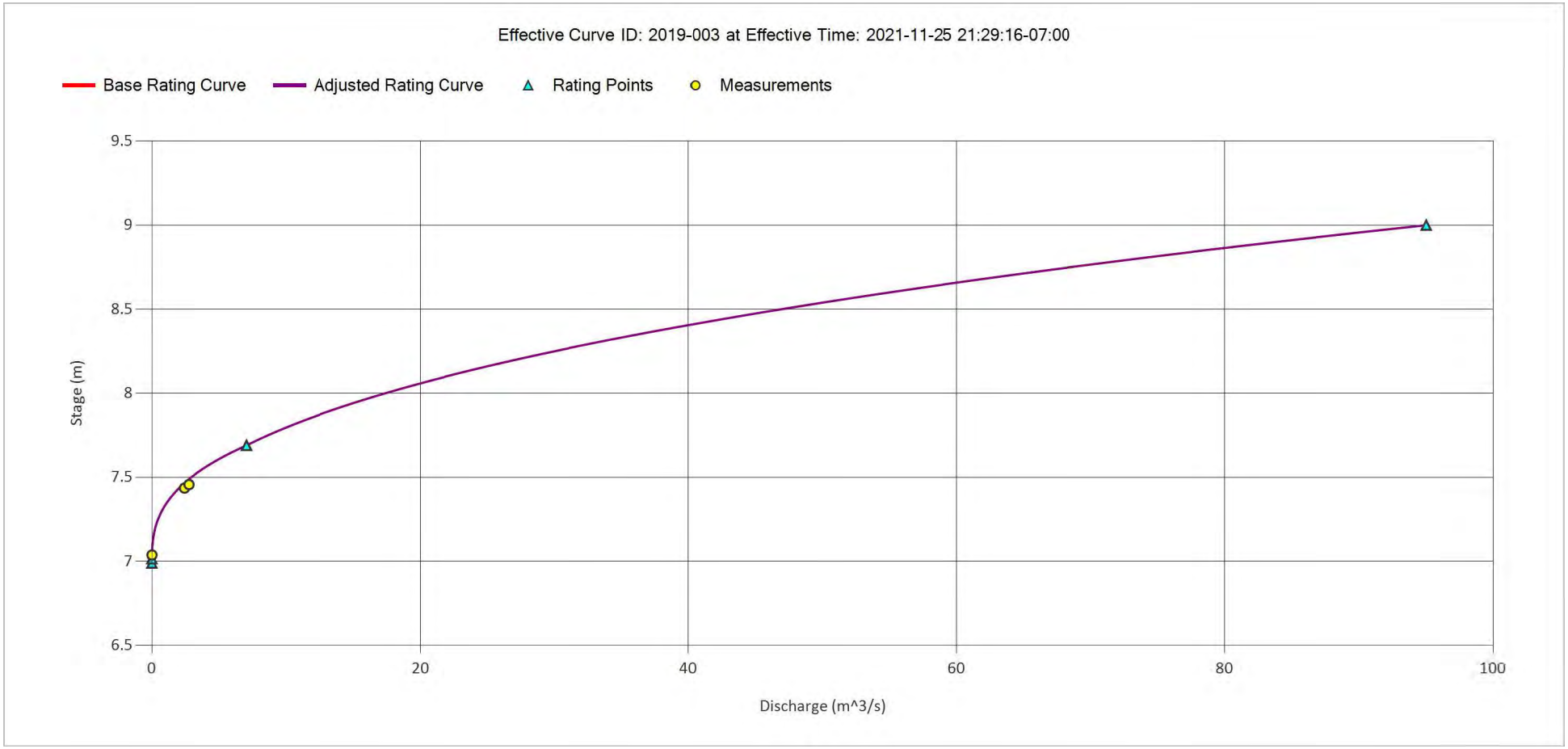
Rating Curve

Beaverlodge River at the Weir

Period Selected: 2022-04-22 00:00 - 2022-08-09 23:59

Rating Model: Stage-Discharge.Rating Curve@2199-01, Beaverlodge River, Stage (m) - Discharge (m^3/s), Number of curves: 2, 2019-05-31 07:00:00-07:00 - end of time
Description: Site ID-2199-01

Rating Curve ID: 2019-003, Rating Period 1: 2021-11-25 21:29:16-07:00 - end of time, Type: Logarithmic Table, Remarks: New Rating curve to adjust upper point



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Rating Curve

Beaverlodge River at the Weir

Period Selected: 2022-04-22 00:00 - 2022-08-09 23:59

Rating Model: Stage-Discharge.Rating Curve@2199-01, Beaverlodge River, Stage (m) - Discharge (m^3/s), Number of curves: 2, 2019-05-31 07:00:00-07:00 - end of time
Description: Site ID-2199-01

Rating Curve ID: 2019-003, Rating Period 1: 2021-11-25 21:29:16-07:00 - end of time, Type: Logarithmic Table, Remarks: New Rating curve to adjust upper point

Base Discharge (m^3/s) Effective Curve ID: 2019-003 at Effective Time: 2021-11-25 21:29:16-07:00

Stage (m)	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
6.9										0.0001
7	0.000443	0.00079	0.00143	0.00299	0.00534	0.00864	0.013	0.0186	0.0255	0.0339
7.1	0.0438	0.0555	0.0689	0.0843	0.102	0.121	0.143	0.167	0.194	0.223
7.2	0.255	0.29	0.327	0.368	0.412	0.459	0.509	0.562	0.619	0.68
7.3	0.744	0.812	0.884	0.959	1.04	1.12	1.21	1.30	1.40	1.50
7.4	1.61	1.72	1.83	1.95	2.08	2.21	2.34	2.48	2.63	2.78
7.5	2.94	3.10	3.27	3.44	3.62	3.80	3.99	4.19	4.39	4.60
7.6	4.82	5.04	5.27	5.50	5.74	5.99	6.25	6.51	6.77	7.05
7.7	7.30	7.56	7.82	8.08	8.36	8.63	8.91	9.20	9.50	9.79
7.8	10.1	10.4	10.7	11.0	11.4	11.7	12.0	12.4	12.7	13.1
7.9	13.5	13.8	14.2	14.6	15.0	15.3	15.7	16.1	16.6	17.0
8	17.4	17.8	18.3	18.7	19.1	19.6	20.1	20.5	21.0	21.5
8.1	22.0	22.4	22.9	23.4	24.0	24.5	25.0	25.5	26.1	26.6
8.2	27.2	27.7	28.3	28.8	29.4	30.0	30.6	31.2	31.8	32.4
8.3	33.0	33.7	34.3	34.9	35.6	36.2	36.9	37.6	38.2	38.9
8.4	39.6	40.3	41.0	41.7	42.4	43.2	43.9	44.6	45.4	46.1
8.5	46.9	47.7	48.4	49.2	50.0	50.8	51.6	52.4	53.3	54.1
8.6	54.9	55.8	56.6	57.5	58.4	59.2	60.1	61.0	61.9	62.8
8.7	63.7	64.7	65.6	66.5	67.5	68.4	69.4	70.4	71.4	72.3
8.8	73.3	74.3	75.4	76.4	77.4	78.4	79.5	80.5	81.6	82.7
8.9	83.8	84.8	85.9	87.0	88.2	89.3	90.4	91.5	92.7	93.8
9	95.0									

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Rating Curve

Beaverlodge River at the Weir

Period Selected: 2022-04-22 00:00 - 2022-08-09 23:59

Rating Model: Stage-Discharge.Rating Curve@2199-01, Beaverlodge River, Stage (m) - Discharge (m^3/s), Number of curves: 2, 2019-05-31 07:00:00-07:00 - end of time
Description: Site ID-2199-01

Measurement Statistics

ID	Measurement Time	RC ID	Measured Stage (m)	Measured Discharge (m^3/s)	Computed Discharge (m^3/s)	Base Discharge (m^3/s)	Base Stage (m)	Shift	R Error	R Error %	T Differ	T Differ %
	2022-04-22 10:36	2019-003	7.457	2.77	2.72	2.30	7.489	0.032	0.466	20.25	0.0496	1.82
	2022-06-23 09:10	2019-003	7.436	2.43	2.44	2.03	7.466	0.030	0.403	19.88	-0.0111	-0.45
	2022-08-09 08:46	2019-003	7.038	0.0072	0.0072	0.0048	7.046	0.008	0.0024	49.94	0.000000437	0.01

R Error Value = Measured Discharge - Base Discharge

R Error Value % = 100 * (R Error Value) / (Base Discharge)

T Differ Value = Measured Discharge - Computed Discharge

T Differ Value % = 100 * (T Differ Value) / (Computed Discharge)

Shift = Base Stage - Measured Stage

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APPENDIX C
Water Quality Sonde Data

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-23 11:00	0	8.026	-107.329	269.493	17.106	235.179	276.936	0.133	0.180	8.106	17.106	18.3
2022-06-23 11:15	900	8.027	-107.4	274.991	17.128	235.498	277.172	0.133	0.180	8.134	17.128	13.284
2022-06-23 11:30	1800	8.057	-109.086	276.312	17.139	235.634	277.265	0.133	0.180	8.151	17.139	12.043
2022-06-23 11:45	2700	8.090	-110.919	275.473	17.14	235.795	277.449	0.133	0.180	8.160	17.14	14.834
2022-06-23 12:00	3600	8.119	-112.548	269.112	17.125	235.866	277.625	0.133	0.180	8.192	17.125	12.907
2022-06-23 12:15	4500	8.145	-114.017	273.694	17.158	236.148	277.748	0.133	0.181	8.210	17.158	15.874
2022-06-23 12:30	5400	8.169	-115.38	272.958	17.225	236.522	277.773	0.133	0.181	8.246	17.225	14.494
2022-06-23 12:45	6300	8.191	-116.62	271.32	17.193	236.419	277.85	0.133	0.181	8.267	17.193	14.787
2022-06-23 13:00	7200	8.217	-118.086	259.725	17.222	236.64	277.929	0.133	0.181	8.296	17.222	16.256
2022-06-23 13:15	8100	8.237	-119.214	266.573	17.276	237.008	278.028	0.133	0.181	8.344	17.276	12.943
2022-06-23 13:30	9000	8.254	-120.177	266.957	17.29	237.142	278.094	0.133	0.181	8.382	17.29	16.086
2022-06-23 13:45	9900	8.269	-121.055	266.873	17.313	237.312	278.151	0.133	0.181	8.408	17.313	13.962
2022-06-23 14:00	10800	8.284	-121.889	255.167	17.354	237.604	278.238	0.133	0.181	8.451	17.354	24.154
2022-06-23 14:15	11700	8.295	-122.528	261.473	17.388	237.813	278.269	0.133	0.181	8.497	17.388	18.442
2022-06-23 14:30	12600	8.306	-123.15	261.435	17.451	238.256	278.396	0.133	0.181	8.545	17.451	16.685
2022-06-23 14:45	13500	8.312	-123.494	261.74	17.445	238.197	278.364	0.133	0.181	8.560	17.445	16.794
2022-06-23 15:00	14400	8.322	-124.104	254.499	17.47	238.421	278.473	0.134	0.181	8.592	17.47	16.131
2022-06-23 15:15	15300	8.325	-124.278	259.248	17.51	238.597	278.431	0.133	0.181	8.628	17.51	15.889
2022-06-23 15:30	16200	8.333	-124.75	259.384	17.572	239.033	278.555	0.134	0.181	8.671	17.572	17.73
2022-06-23 15:45	17100	8.339	-125.105	258.929	17.618	239.317	278.596	0.134	0.181	8.707	17.618	16.529
2022-06-23 16:00	18000	8.343	-125.353	249.886	17.661	239.589	278.651	0.134	0.181	8.760	17.661	15.612
2022-06-23 16:15	18900	8.351	-125.799	253.822	17.683	239.745	278.697	0.134	0.181	8.773	17.683	17.527
2022-06-23 16:30	19800	8.357	-126.147	254.137	17.706	239.902	278.732	0.134	0.181	8.799	17.706	18.613
2022-06-23 16:45	20700	8.359	-126.247	254.366	17.723	240.073	278.826	0.134	0.181	8.827	17.723	15.406
2022-06-23 17:00	21600	8.366	-126.657	246.684	17.743	240.225	278.88	0.134	0.181	8.847	17.743	20.779
2022-06-23 17:15	22500	8.360	-126.345	249.049	17.752	240.166	278.757	0.134	0.181	8.854	17.752	13.504
2022-06-23 17:30	23400	8.364	-126.579	250.339	17.773	240.365	278.854	0.134	0.181	8.876	17.773	17.264
2022-06-23 17:45	24300	8.370	-126.925	251.369	17.805	240.499	278.815	0.134	0.181	8.920	17.805	15.354
2022-06-23 18:00	25200	8.368	-126.824	244.683	17.835	240.615	278.766	0.134	0.181	8.940	17.835	15.478
2022-06-23 18:15	26100	8.376	-127.285	244.39	17.864	240.765	278.762	0.134	0.181	8.965	17.864	14.918
2022-06-23 18:30	27000	8.377	-127.375	246.414	17.901	240.98	278.78	0.134	0.181	8.991	17.901	14.969
2022-06-23 18:45	27900	8.382	-127.637	248.229	17.936	241.228	278.851	0.134	0.181	8.995	17.936	14.86
2022-06-23 19:00	28800	8.395	-128.391	240.306	17.954	241.393	278.932	0.134	0.181	9.003	17.954	20.135
2022-06-23 19:15	29700	8.390	-128.121	247.759	17.952	241.359	278.907	0.134	0.181	8.989	17.952	14.596
2022-06-23 19:30	30600	8.395	-128.398	248.76	17.956	241.4	278.927	0.134	0.181	8.994	17.956	13.58
2022-06-23 19:45	31500	8.395	-128.415	249.614	17.958	241.418	278.935	0.134	0.181	9.004	17.958	13.28
2022-06-23 20:00	32400	8.396	-128.472	246.217	17.958	241.419	278.935	0.134	0.181	9.007	17.958	13.931
2022-06-23 20:15	33300	8.399	-128.615	245.532	17.958	241.457	278.981	0.134	0.181	9.003	17.958	15.339
2022-06-23 20:30	34200	8.403	-128.829	246.758	17.945	241.374	278.965	0.134	0.181	9.009	17.945	15.871
2022-06-23 20:45	35100	8.405	-128.927	248.155	17.922	241.273	278.99	0.134	0.181	9.007	17.922	15.943
2022-06-23 21:00	36000	8.412	-129.323	246.193	17.893	241.149	279.026	0.134	0.181	8.991	17.893	17.199
2022-06-23 21:15	36900	8.402	-128.739	244.75	17.861	241.028	279.08	0.134	0.181	8.977	17.861	15.042
2022-06-23 21:30	37800	8.403	-128.82	246.667	17.833	240.905	279.115	0.134	0.181	8.955	17.833	13.7
2022-06-23 21:45	38700	8.401	-128.672	248.126	17.797	240.789	279.2	0.134	0.181	8.928	17.797	14.107
2022-06-23 22:00	39600	8.397	-128.431	242.34	17.761	240.64	279.251	0.134	0.182	8.905	17.761	15.193
2022-06-23 22:15	40500	8.394	-128.229	242.268	17.727	240.507	279.308	0.134	0.182	8.877	17.727	14.46
2022-06-23 22:30	41400	8.394	-128.193	245.02	17.676	240.283	279.361	0.134	0.182	8.863	17.676	18.265
2022-06-23 22:45	42300	8.390	-127.995	246.3	17.638	240.108	279.394	0.134	0.182	8.836	17.638	14.304

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-23 23:00	43200	8.394	-128.181	240.835	17.579	239.96	279.588	0.134	0.182	8.823	17.579	14.574
2022-06-23 23:15	44100	8.385	-127.645	245.237	17.539	239.798	279.648	0.134	0.182	8.804	17.539	15.515
2022-06-23 23:30	45000	8.381	-127.406	247.277	17.505	239.697	279.746	0.134	0.182	8.783	17.505	12.952
2022-06-23 23:45	45900	8.378	-127.211	248.486	17.457	239.56	279.882	0.134	0.182	8.750	17.457	13.636
2022-06-24 00:00	46800	8.374	-126.987	233.013	17.408	239.349	279.945	0.134	0.182	8.730	17.408	18.992
2022-06-24 00:15	47700	8.371	-126.793	249.011	17.364	239.254	280.105	0.134	0.182	8.709	17.364	15.289
2022-06-24 00:30	48600	8.368	-126.598	250.718	17.313	239.155	280.311	0.134	0.182	8.697	17.313	13.01
2022-06-24 00:45	49500	8.366	-126.457	250.048	17.266	239.044	280.477	0.134	0.182	8.677	17.266	15.245
2022-06-24 01:00	50400	8.368	-126.564	245.237	17.228	239.097	280.778	0.135	0.183	8.646	17.228	14.04
2022-06-24 01:15	51300	8.361	-126.171	248.231	17.189	239.063	280.98	0.135	0.183	8.633	17.189	13.528
2022-06-24 01:30	52200	8.359	-125.997	250.506	17.153	239.076	281.228	0.135	0.183	8.609	17.153	12.977
2022-06-24 01:45	53100	8.357	-125.89	251.056	17.112	239.128	281.543	0.135	0.183	8.612	17.112	11.736
2022-06-24 02:00	54000	8.353	-125.642	248.152	17.079	239.094	281.715	0.135	0.183	8.590	17.079	14.857
2022-06-24 02:15	54900	8.349	-125.439	249.616	17.039	239.216	282.115	0.135	0.183	8.571	17.039	13.488
2022-06-24 02:30	55800	8.346	-125.22	250.644	17.002	239.309	282.458	0.135	0.184	8.558	17.002	15.019
2022-06-24 02:45	56700	8.343	-125.034	251.817	16.966	239.408	282.805	0.136	0.184	8.543	16.966	14.203
2022-06-24 03:00	57600	8.343	-125.022	249.187	16.926	239.546	283.225	0.136	0.184	8.518	16.926	13.721
2022-06-24 03:15	58500	8.336	-124.626	250.539	16.89	239.742	283.688	0.136	0.184	8.505	16.89	13.659
2022-06-24 03:30	59400	8.329	-124.233	252.234	16.852	239.866	284.076	0.136	0.185	8.482	16.852	13.357
2022-06-24 03:45	60300	8.326	-124.035	253.839	16.8	239.968	284.532	0.136	0.185	8.469	16.8	17.758
2022-06-24 04:00	61200	8.326	-124.03	249.144	16.763	240.059	284.876	0.137	0.185	8.448	16.763	14.053
2022-06-24 04:15	62100	8.319	-123.587	253.987	16.72	240.194	285.319	0.137	0.185	8.438	16.72	12.156
2022-06-24 04:30	63000	8.317	-123.487	254.564	16.668	240.305	285.785	0.137	0.186	8.427	16.668	12.874
2022-06-24 04:45	63900	8.314	-123.258	255.298	16.628	240.459	286.226	0.137	0.186	8.412	16.628	14.798
2022-06-24 05:00	64800	8.314	-123.258	253.405	16.582	240.723	286.842	0.138	0.186	8.401	16.582	12.023
2022-06-24 05:15	65700	8.304	-122.674	254.95	16.54	240.812	287.222	0.138	0.187	8.385	16.54	16.841
2022-06-24 05:30	66600	8.301	-122.495	256.082	16.487	240.943	287.724	0.138	0.187	8.374	16.487	16.115
2022-06-24 05:45	67500	8.298	-122.294	256.504	16.436	241.006	288.137	0.138	0.187	8.373	16.436	13.385
2022-06-24 06:00	68400	8.294	-122.068	239.424	16.392	241.014	288.439	0.138	0.187	8.368	16.392	11.808
2022-06-24 06:15	69300	8.290	-121.834	254.211	16.336	241.097	288.904	0.139	0.188	8.350	16.336	14.293
2022-06-24 06:30	70200	8.286	-121.539	255.439	16.289	241.2	289.338	0.139	0.188	8.348	16.289	14.73
2022-06-24 06:45	71100	8.282	-121.336	256.631	16.248	241.28	289.708	0.139	0.188	8.336	16.248	12.852
2022-06-24 07:00	72000	8.282	-121.317	254.695	16.207	241.373	290.091	0.139	0.189	8.334	16.207	18.586
2022-06-24 07:15	72900	8.273	-120.809	256.888	16.163	241.39	290.409	0.139	0.189	8.328	16.163	13.653
2022-06-24 07:30	73800	8.273	-120.797	258.004	16.128	241.37	290.615	0.139	0.189	8.317	16.128	14.237
2022-06-24 07:45	74700	8.269	-120.518	259.151	16.103	241.495	290.934	0.139	0.189	8.323	16.103	12.734
2022-06-24 08:00	75600	8.267	-120.437	254.516	16.072	241.414	291.047	0.140	0.189	8.319	16.072	19.086
2022-06-24 08:15	76500	8.263	-120.156	252.833	16.02	241.378	291.349	0.140	0.189	8.320	16.02	15.159
2022-06-24 08:30	77400	8.259	-119.941	254.571	15.995	241.409	291.555	0.140	0.190	8.315	15.995	16.421
2022-06-24 08:45	78300	8.256	-119.748	254.742	15.961	241.334	291.696	0.140	0.190	8.292	15.961	13.581
2022-06-24 09:00	79200	8.258	-119.863	252.465	15.941	241.473	291.993	0.140	0.190	8.305	15.941	16.783
2022-06-24 09:15	80100	8.250	-119.424	255.629	15.935	241.513	292.084	0.140	0.190	8.309	15.935	17.077
2022-06-24 09:30	81000	8.248	-119.286	257.117	15.941	241.642	292.203	0.140	0.190	8.300	15.941	16.978
2022-06-24 09:45	81900	8.249	-119.367	257.768	15.945	241.827	292.399	0.140	0.190	8.321	15.945	14.631
2022-06-24 10:00	82800	8.246	-119.178	255.217	15.972	242.031	292.464	0.140	0.190	8.331	15.972	24.619
2022-06-24 10:15	83700	8.246	-119.212	254.215	15.978	242.166	292.585	0.140	0.190	8.355	15.978	14.945
2022-06-24 10:30	84600	8.241	-118.916	255.307	15.996	242.383	292.722	0.140	0.190	8.374	15.996	14.518
2022-06-24 10:45	85500	8.243	-119.052	256.852	16.011	242.596	292.882	0.140	0.190	8.375	16.011	20.078

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-24 11:00	86400	8.249	-119.379	254.695	16.051	242.971	293.062	0.141	0.190	8.414	16.051	15.638
2022-06-24 11:15	87300	8.240	-118.911	258.188	16.049	243.066	293.189	0.141	0.191	8.420	16.049	14.704
2022-06-24 11:30	88200	8.240	-118.895	259.253	16.077	243.271	293.249	0.141	0.191	8.441	16.077	15.679
2022-06-24 11:45	89100	8.243	-119.069	259.573	16.077	243.36	293.354	0.141	0.191	8.450	16.077	14.976
2022-06-24 12:00	90000	7.433	-73.602	251.037	15.372	0.055	0.067	0.000	0.000	9.361	15.372	1.446
2022-06-24 12:15	90900	7.486	-76.597	255.782	15.545	0.055	0.067	0.000	0.000	9.295	15.545	1.004
2022-06-24 12:30	91800	7.434	-73.481	244.965	14.655	0.055	0.068	0.000	0.000	9.526	14.655	0.95
2022-06-24 12:45	92700	8.135	-113.046	245.492	16.153	243.735	293.296	0.141	0.191	8.585	16.153	14.238
2022-06-24 13:00	93600	8.005	-105.791	239.794	16.181	243.968	293.391	0.141	0.191	8.614	16.181	14.245
2022-06-24 13:15	94500	8.004	-105.741	259.282	16.215	244.23	293.474	0.141	0.191	8.663	16.215	12.291
2022-06-24 13:30	95400	8.041	-107.837	260.646	16.25	244.452	293.504	0.141	0.191	8.703	16.25	13.136
2022-06-24 13:45	96300	8.086	-110.404	260.479	16.322	244.881	293.535	0.141	0.191	8.739	16.322	13.683
2022-06-24 14:00	97200	8.136	-113.225	247.413	16.411	245.507	293.683	0.141	0.191	8.785	16.411	15.884
2022-06-24 14:15	98100	8.167	-114.992	253.114	16.445	245.702	293.689	0.141	0.191	8.839	16.445	15.049
2022-06-24 14:30	99000	8.195	-116.563	253.498	16.513	246.105	293.717	0.141	0.191	8.860	16.513	18.169
2022-06-24 14:45	99900	8.216	-117.748	253.431	16.585	246.534	293.75	0.141	0.191	8.906	16.585	13.502
2022-06-24 15:00	100800	8.239	-119.092	239.679	16.73	247.316	293.706	0.141	0.191	8.969	16.73	13.999
2022-06-24 15:15	101700	8.250	-119.765	251.96	16.796	247.672	293.691	0.141	0.191	9.015	16.796	12.327
2022-06-24 15:30	102600	8.262	-120.451	252.985	16.877	248.228	293.811	0.141	0.191	9.044	16.877	14.344
2022-06-24 15:45	103500	8.271	-120.988	254.051	16.948	248.619	293.802	0.141	0.191	9.087	16.948	17.143
2022-06-24 16:00	104400	8.291	-122.201	235.101	17.103	249.53	293.851	0.141	0.191	9.162	17.103	15.788
2022-06-24 16:15	105300	8.298	-122.638	247.592	17.248	250.373	293.889	0.141	0.191	9.202	17.248	18.581
2022-06-24 16:30	106200	8.302	-122.921	249.087	17.337	250.867	293.88	0.141	0.191	9.236	17.337	13.133
2022-06-24 16:45	107100	8.322	-124.199	248.114	17.775	253.397	293.96	0.141	0.191	9.355	17.775	14.749
2022-06-24 17:00	108000	8.324	-124.221	241.327	17.576	252.206	293.879	0.141	0.191	9.327	17.576	15.087
2022-06-24 17:15	108900	8.324	-124.321	249.101	17.803	253.495	293.893	0.141	0.191	9.361	17.803	15.252
2022-06-24 17:30	109800	8.334	-124.984	249.762	18.004	254.669	293.947	0.141	0.191	9.447	18.004	15.468
2022-06-24 17:45	110700	8.345	-125.716	249.733	18.243	256.181	294.145	0.141	0.191	9.489	18.243	13.863
2022-06-24 18:00	111600	8.371	-127.261	235.671	18.433	257.172	294.057	0.141	0.191	9.554	18.433	16.269
2022-06-24 18:15	112500	8.352	-126.164	247.12	18.44	257.28	294.136	0.141	0.191	9.537	18.44	12.531
2022-06-24 18:30	113400	8.364	-126.92	247.01	18.613	258.241	294.121	0.141	0.191	9.580	18.613	15.024
2022-06-24 18:45	114300	8.362	-126.803	248.112	18.576	258.013	294.101	0.141	0.191	9.566	18.576	14.478
2022-06-24 19:00	115200	8.366	-127.089	242.845	18.667	258.479	294.05	0.141	0.191	9.579	18.667	12.834
2022-06-24 19:15	116100	8.360	-126.793	248.434	18.764	259.106	294.143	0.141	0.191	9.577	18.764	14.899
2022-06-24 19:30	117000	8.367	-127.234	248.508	18.875	259.772	294.187	0.141	0.191	9.586	18.875	13.329
2022-06-24 19:45	117900	8.377	-127.838	248.315	18.998	260.438	294.163	0.141	0.191	9.595	18.998	15.271
2022-06-24 20:00	118800	8.394	-128.865	235.025	19.097	261.053	294.227	0.141	0.191	9.593	19.097	18.246
2022-06-24 20:15	119700	8.393	-128.825	245.437	19.176	261.462	294.189	0.141	0.191	9.601	19.176	15.626
2022-06-24 20:30	120600	8.410	-129.833	244.889	19.295	262.021	294.061	0.141	0.191	9.625	19.295	16.221
2022-06-24 20:45	121500	8.408	-129.728	245.609	19.305	262.013	293.99	0.141	0.191	9.614	19.305	14.52
2022-06-24 21:00	122400	8.401	-129.328	240.609	19.311	261.943	293.878	0.141	0.191	9.583	19.311	14.513
2022-06-24 21:15	123300	8.398	-129.154	246.371	19.308	261.851	293.793	0.141	0.191	9.562	19.308	13.946
2022-06-24 21:30	124200	8.398	-129.166	246.705	19.294	261.726	293.739	0.141	0.191	9.534	19.294	13.303
2022-06-24 21:45	125100	8.395	-128.977	247.478	19.275	261.568	293.683	0.141	0.191	9.496	19.275	13.097
2022-06-24 22:00	126000	8.410	-129.833	242.037	19.245	261.391	293.672	0.141	0.191	9.469	19.245	16.074
2022-06-24 22:15	126900	8.403	-129.375	246.295	19.213	261.116	293.564	0.141	0.191	9.434	19.213	13.133
2022-06-24 22:30	127800	8.403	-129.371	247.089	19.163	260.753	293.471	0.141	0.191	9.394	19.163	14.188
2022-06-24 22:45	128700	8.401	-129.266	247.852	19.12	260.372	293.31	0.141	0.191	9.355	19.12	14.388

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-24 23:00	129600	8.396	-128.93	241.923	19.068	259.969	293.189	0.141	0.191	9.329	19.068	15.581
2022-06-24 23:15	130500	8.395	-128.872	247.354	19.014	259.587	293.099	0.141	0.191	9.287	19.014	14.938
2022-06-24 23:30	131400	8.395	-128.839	248.157	18.956	259.14	292.961	0.141	0.190	9.260	18.956	13.277
2022-06-24 23:45	132300	8.392	-128.617	248.825	18.897	258.737	292.874	0.141	0.190	9.223	18.897	11.37
2022-06-25 00:00	133200	8.407	-129.473	246.746	18.834	258.288	292.765	0.141	0.190	9.194	18.834	27.676
2022-06-25 00:15	134100	8.397	-128.884	247.792	18.766	257.835	292.684	0.141	0.190	9.152	18.766	14.942
2022-06-25 00:30	135000	8.399	-128.927	248.536	18.701	257.347	292.546	0.140	0.190	9.131	18.701	13.438
2022-06-25 00:45	135900	8.401	-129.018	248.806	18.644	256.894	292.388	0.140	0.190	9.091	18.644	13.848
2022-06-25 01:00	136800	8.402	-129.068	242.23	18.587	256.436	292.229	0.140	0.190	9.066	18.587	13.679
2022-06-25 01:15	137700	8.397	-128.744	247.974	18.541	256.033	292.062	0.140	0.190	9.022	18.541	13.497
2022-06-25 01:30	138600	8.399	-128.853	248.806	18.493	255.638	291.921	0.140	0.190	8.984	18.493	12.465
2022-06-25 01:45	139500	8.397	-128.763	249.497	18.468	255.432	291.839	0.140	0.190	8.947	18.468	14.739
2022-06-25 02:00	140400	8.409	-129.392	245.873	18.436	255.207	291.789	0.140	0.190	8.919	18.436	17.215
2022-06-25 02:15	141300	8.404	-129.077	248.465	18.395	254.804	291.593	0.140	0.190	8.859	18.395	12.453
2022-06-25 02:30	142200	8.396	-128.622	249.879	18.362	254.547	291.505	0.140	0.189	8.817	18.362	14.731
2022-06-25 02:45	143100	8.396	-128.615	250.51	18.319	254.176	291.354	0.140	0.189	8.778	18.319	14.493
2022-06-25 03:00	144000	8.392	-128.348	245.513	18.282	253.794	291.149	0.140	0.189	8.734	18.282	12.509
2022-06-25 03:15	144900	8.385	-127.954	251.071	18.225	253.333	290.986	0.140	0.189	8.686	18.225	13.215
2022-06-25 03:30	145800	8.385	-127.95	251.574	18.183	253.017	290.894	0.140	0.189	8.636	18.183	11.891
2022-06-25 03:45	146700	8.383	-127.766	252.485	18.115	252.467	290.697	0.140	0.189	8.603	18.115	10.843
2022-06-25 04:00	147600	8.390	-128.179	248.579	18.061	252.087	290.601	0.139	0.189	8.566	18.061	14.294
2022-06-25 04:15	148500	8.377	-127.401	252.864	18	251.636	290.475	0.139	0.189	8.544	18	13.234
2022-06-25 04:30	149400	8.371	-127.056	254.18	17.933	251.201	290.396	0.139	0.189	8.507	17.933	13.143
2022-06-25 04:45	150300	8.370	-126.965	254.361	17.881	250.748	290.21	0.139	0.189	8.482	17.881	13.205
2022-06-25 05:00	151200	8.365	-126.677	248.849	17.819	250.316	290.106	0.139	0.189	8.458	17.819	12.202
2022-06-25 05:15	152100	8.358	-126.212	254.397	17.747	249.768	289.932	0.139	0.188	8.430	17.747	12.753
2022-06-25 05:30	153000	8.353	-125.89	255.248	17.681	249.311	289.825	0.139	0.188	8.411	17.681	10.036
2022-06-25 05:45	153900	8.350	-125.69	256.197	17.606	248.713	289.616	0.139	0.188	8.388	17.606	11.836
2022-06-25 06:00	154800	8.354	-125.93	250.181	17.535	248.302	289.592	0.139	0.188	8.371	17.535	17.363
2022-06-25 06:15	155700	8.338	-124.972	256.511	17.459	247.768	289.461	0.139	0.188	8.346	17.459	14.426
2022-06-25 06:30	156600	8.335	-124.798	256.821	17.39	247.274	289.33	0.139	0.188	8.335	17.39	13.181
2022-06-25 06:45	157500	8.332	-124.576	257.766	17.309	246.687	289.164	0.139	0.188	8.324	17.309	15.397
2022-06-25 07:00	158400	8.331	-124.493	252.098	17.235	246.149	289.014	0.139	0.188	8.316	17.235	11.404
2022-06-25 07:15	159300	8.320	-123.818	257.658	17.165	245.649	288.877	0.139	0.188	8.301	17.165	11.98
2022-06-25 07:30	160200	8.318	-123.687	258.044	17.089	245.124	288.756	0.139	0.188	8.293	17.089	11.901
2022-06-25 07:45	161100	8.311	-123.262	258.843	17.022	244.584	288.557	0.138	0.188	8.281	17.022	13.125
2022-06-25 08:00	162000	8.319	-123.694	255.279	16.952	244.237	288.598	0.138	0.188	8.271	16.952	16.667
2022-06-25 08:15	162900	8.305	-122.905	256.011	16.888	243.799	288.499	0.138	0.188	8.269	16.888	17.814
2022-06-25 08:30	163800	8.304	-122.826	256.383	16.835	243.408	288.383	0.138	0.187	8.261	16.835	16.564
2022-06-25 08:45	164700	8.299	-122.471	257.396	16.773	242.95	288.242	0.138	0.187	8.261	16.773	15.048
2022-06-25 09:00	165600	8.297	-122.366	253.55	16.725	242.592	288.135	0.138	0.187	8.261	16.725	15.126
2022-06-25 09:15	166500	8.291	-122.03	257.696	16.695	242.322	288.007	0.138	0.187	8.267	16.695	13.972
2022-06-25 09:30	167400	8.287	-121.799	258.288	16.663	242.046	287.891	0.138	0.187	8.272	16.663	15.901
2022-06-25 09:45	168300	8.286	-121.715	258.922	16.649	241.902	287.809	0.138	0.187	8.278	16.649	12.603
2022-06-25 10:00	169200	8.294	-122.144	256.559	16.647	241.785	287.685	0.138	0.187	8.288	16.647	19.868
2022-06-25 10:15	170100	8.285	-121.636	257.899	16.659	241.774	287.591	0.138	0.187	8.297	16.659	14.814
2022-06-25 10:30	171000	8.284	-121.605	258.133	16.661	241.726	287.524	0.138	0.187	8.294	16.661	13.349
2022-06-25 10:45	171900	8.277	-121.236	259.024	16.664	241.691	287.459	0.138	0.187	8.301	16.664	15.398

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-25 11:00	172800	8.280	-121.381	253.56	16.667	241.505	287.217	0.138	0.187	8.321	16.667	11.531
2022-06-25 11:15	173700	8.274	-121.04	258.874	16.672	241.442	287.109	0.138	0.187	8.331	16.672	13.834
2022-06-25 11:30	174600	8.271	-120.873	259.716	16.696	241.464	286.983	0.138	0.187	8.352	16.696	12.207
2022-06-25 11:45	175500	8.270	-120.857	259.842	16.713	241.48	286.891	0.138	0.186	8.364	16.713	12.609
2022-06-25 12:00	176400	8.279	-121.386	255.264	16.739	241.572	286.829	0.138	0.186	8.383	16.739	16.079
2022-06-25 12:15	177300	8.269	-120.8	259.034	16.76	241.591	286.713	0.137	0.186	8.422	16.76	15.941
2022-06-25 12:30	178200	8.268	-120.769	259.539	16.768	241.487	286.537	0.137	0.186	8.444	16.768	13.765
2022-06-25 12:45	179100	8.263	-120.523	260.085	16.813	241.654	286.448	0.137	0.186	8.469	16.813	17.75
2022-06-25 13:00	180000	8.270	-120.878	256.676	16.837	241.593	286.217	0.137	0.186	8.505	16.837	15.439
2022-06-25 13:15	180900	8.262	-120.461	259.706	16.891	241.937	286.274	0.137	0.186	8.513	16.891	14.8
2022-06-25 13:30	181800	8.263	-120.528	259.909	16.918	241.951	286.119	0.137	0.186	8.528	16.918	15.33
2022-06-25 13:45	182700	8.263	-120.554	259.62	16.959	242.15	286.091	0.137	0.186	8.555	16.959	16.843
2022-06-25 14:00	183600	8.273	-121.14	255.25	17.017	242.469	286.088	0.137	0.186	8.577	17.017	27.13
2022-06-25 14:15	184500	8.270	-120.974	258.285	17.084	242.747	285.989	0.137	0.186	8.605	17.084	19.01
2022-06-25 14:30	185400	8.277	-121.398	257.46	17.159	243.08	285.897	0.137	0.186	8.641	17.159	15.107
2022-06-25 14:45	186300	8.279	-121.582	256.938	17.254	243.5	285.782	0.137	0.186	8.682	17.254	20.465
2022-06-25 15:00	187200	8.279	-121.598	252.136	17.325	243.789	285.668	0.137	0.186	8.716	17.325	17.183
2022-06-25 15:15	188100	8.286	-122.039	254.676	17.477	244.511	285.539	0.137	0.186	8.777	17.477	13.386
2022-06-25 15:30	189000	8.289	-122.275	255.408	17.554	244.854	285.451	0.137	0.186	8.824	17.554	13.357
2022-06-25 15:45	189900	8.296	-122.702	255.424	17.683	245.434	285.308	0.137	0.185	8.885	17.683	12.181
2022-06-25 16:00	190800	8.317	-123.951	250.093	17.855	246.301	285.228	0.137	0.185	8.956	17.855	20.247
2022-06-25 16:15	191700	8.310	-123.634	253.894	17.983	246.871	285.079	0.137	0.185	9.013	17.983	18.245
2022-06-25 16:30	192600	8.318	-124.121	253.667	18.095	247.482	285.08	0.137	0.185	9.023	18.095	16.139
2022-06-25 16:45	193500	8.314	-123.999	253.588	18.268	248.396	285.051	0.137	0.185	9.059	18.268	15.885
2022-06-25 17:00	194400	8.325	-124.652	250.804	18.408	248.965	284.827	0.137	0.185	9.124	18.408	15.27
2022-06-25 17:15	195300	8.325	-124.681	252.542	18.538	249.604	284.746	0.137	0.185	9.182	18.538	12.962
2022-06-25 17:30	196200	8.330	-125.034	252.284	18.692	250.423	284.726	0.137	0.185	9.214	18.692	13.435
2022-06-25 17:45	197100	8.334	-125.368	252.06	18.849	251.162	284.6	0.137	0.185	9.263	18.849	14.129
2022-06-25 18:00	198000	8.352	-126.386	233.316	18.895	251.43	284.617	0.137	0.185	9.252	18.895	32.781
2022-06-25 18:15	198900	8.349	-126.338	248.851	19.225	253.239	284.636	0.137	0.185	9.314	19.225	14.747
2022-06-25 18:30	199800	8.355	-126.77	248.718	19.331	253.755	284.57	0.137	0.185	9.335	19.331	11.83
2022-06-25 18:45	200700	8.359	-126.991	249.144	19.401	254.142	284.575	0.137	0.185	9.371	19.401	15.725
2022-06-25 19:00	201600	8.357	-127.008	246.228	19.642	255.592	284.728	0.137	0.185	9.418	19.642	12.044
2022-06-25 19:15	202500	8.360	-127.213	248.574	19.735	256.409	285.078	0.137	0.185	9.426	19.735	11.782
2022-06-25 19:30	203400	8.360	-127.285	248.62	19.876	257.334	285.253	0.137	0.185	9.436	19.876	13.68
2022-06-25 19:45	204300	8.366	-127.64	248.207	20.002	258.351	285.619	0.137	0.186	9.442	20.002	13.668
2022-06-25 20:00	205200	8.383	-128.665	242.736	20.071	259.064	285.991	0.137	0.186	9.459	20.071	16.823
2022-06-25 20:15	206100	8.375	-128.238	246.319	20.161	259.967	286.444	0.138	0.186	9.458	20.161	16.167
2022-06-25 20:30	207000	8.380	-128.577	246.665	20.271	261.043	286.962	0.138	0.187	9.470	20.271	15.005
2022-06-25 20:45	207900	8.380	-128.601	246.438	20.363	262.046	287.51	0.138	0.187	9.440	20.363	15.394
2022-06-25 21:00	208800	8.376	-128.386	232.712	20.42	262.697	287.883	0.138	0.187	9.441	20.42	14.109
2022-06-25 21:15	209700	8.386	-128.987	245.871	20.487	263.496	288.352	0.138	0.187	9.438	20.487	12.674
2022-06-25 21:30	210600	8.381	-128.717	246.336	20.546	264.275	288.851	0.139	0.188	9.410	20.546	17.776
2022-06-25 21:45	211500	8.397	-129.688	245.554	20.638	265.46	289.584	0.139	0.188	9.418	20.638	14.391
2022-06-25 22:00	212400	8.411	-130.479	241.16	20.672	266.169	290.156	0.139	0.189	9.394	20.672	19.191
2022-06-25 22:15	213300	8.394	-129.535	245.794	20.682	266.626	290.592	0.140	0.189	9.366	20.682	16.82
2022-06-25 22:30	214200	8.402	-130.024	245.744	20.686	266.998	290.974	0.140	0.189	9.320	20.686	20.984
2022-06-25 22:45	215100	8.399	-129.807	246.19	20.696	267.531	291.496	0.140	0.189	9.308	20.696	15.392

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-25 23:00	216000	8.395	-129.581	242.006	20.703	268.001	291.965	0.140	0.190	9.272	20.703	16.063
2022-06-25 23:15	216900	8.398	-129.747	245.666	20.69	268.434	292.514	0.141	0.190	9.237	20.69	11.234
2022-06-25 23:30	217800	8.393	-129.454	245.833	20.671	268.747	292.972	0.141	0.190	9.183	20.671	14.079
2022-06-25 23:45	218700	8.399	-129.826	245.48	20.65	269.131	293.52	0.141	0.191	9.143	20.65	14.369
2022-06-26 00:00	219600	8.408	-130.308	239.979	20.611	269.442	294.098	0.141	0.191	9.112	20.611	14.06
2022-06-26 00:15	220500	8.403	-129.979	244.159	20.564	269.558	294.51	0.142	0.191	9.063	20.564	13.311
2022-06-26 00:30	221400	8.397	-129.623	244.805	20.519	269.656	294.897	0.142	0.192	9.001	20.519	13.02
2022-06-26 00:45	222300	8.393	-129.416	246.011	20.464	269.656	295.235	0.142	0.192	8.961	20.464	14.142
2022-06-26 01:00	223200	8.392	-129.292	242.202	20.409	269.389	295.281	0.142	0.192	8.915	20.409	13.378
2022-06-26 01:15	224100	8.393	-129.316	246.407	20.345	268.99	295.242	0.142	0.192	8.874	20.345	13.409
2022-06-26 01:30	225000	8.388	-129.025	247.101	20.285	268.571	295.151	0.142	0.192	8.822	20.285	13.551
2022-06-26 01:45	225900	8.388	-128.965	247.387	20.206	267.812	294.807	0.142	0.192	8.784	20.206	15.111
2022-06-26 02:00	226800	8.401	-129.69	244.13	20.144	267.332	294.662	0.142	0.192	8.719	20.144	19.13
2022-06-26 02:15	227700	8.389	-128.97	247.232	20.079	266.55	294.2	0.141	0.191	8.691	20.079	11.654
2022-06-26 02:30	228600	8.391	-129.099	247.761	20.008	265.651	293.65	0.141	0.191	8.647	20.008	12.448
2022-06-26 02:45	229500	8.386	-128.753	248.193	19.94	264.779	293.104	0.141	0.191	8.602	19.94	16.472
2022-06-26 03:00	230400	8.389	-128.896	242.771	19.879	263.88	292.487	0.141	0.190	8.555	19.879	13.315
2022-06-26 03:15	231300	8.388	-128.82	247.742	19.825	263.096	291.951	0.140	0.190	8.525	19.825	12.091
2022-06-26 03:30	232200	8.386	-128.655	248.036	19.755	262.044	291.217	0.140	0.189	8.472	19.755	12.326
2022-06-26 03:45	233100	8.385	-128.572	248.439	19.696	261.353	290.812	0.140	0.189	8.419	19.696	12.981
2022-06-26 04:00	234000	8.393	-129.013	246.531	19.643	260.748	290.467	0.140	0.189	8.377	19.643	15.091
2022-06-26 04:15	234900	8.381	-128.324	248.315	19.587	260.002	289.986	0.139	0.188	8.340	19.587	15.843
2022-06-26 04:30	235800	8.379	-128.202	248.658	19.521	259.241	289.542	0.139	0.188	8.299	19.521	12.015
2022-06-26 04:45	236700	8.379	-128.143	248.76	19.454	258.521	289.149	0.139	0.188	8.261	19.454	13.257
2022-06-26 05:00	237600	8.372	-127.759	247.025	19.395	257.834	288.745	0.139	0.188	8.224	19.395	15.312
2022-06-26 05:15	238500	8.367	-127.411	249.213	19.333	257.299	288.529	0.139	0.188	8.179	19.333	11.669
2022-06-26 05:30	239400	8.362	-127.132	249.764	19.258	256.587	288.196	0.138	0.187	8.149	19.258	11.445
2022-06-26 05:45	240300	8.358	-126.843	250.541	19.191	255.923	287.864	0.138	0.187	8.112	19.191	11.381
2022-06-26 06:00	241200	8.364	-127.156	248.92	19.111	255.305	287.664	0.138	0.187	8.092	19.111	15.312
2022-06-26 06:15	242100	8.351	-126.371	250.782	19.044	254.744	287.441	0.138	0.187	8.065	19.044	37.216
2022-06-26 06:30	243000	8.344	-125.992	251.121	18.97	254.116	287.196	0.138	0.187	8.046	18.97	13.896
2022-06-26 06:45	243900	8.345	-125.999	251.185	18.898	253.544	286.99	0.138	0.187	8.019	18.898	11.804
2022-06-26 07:00	244800	8.340	-125.666	248.66	18.821	252.859	286.693	0.138	0.186	8.010	18.821	12.707
2022-06-26 07:15	245700	8.334	-125.303	251.347	18.757	252.348	286.514	0.138	0.186	7.985	18.757	14.169
2022-06-26 07:30	246600	8.331	-125.098	251.266	18.693	251.827	286.314	0.137	0.186	7.968	18.693	13.783
2022-06-26 07:45	247500	8.324	-124.698	252.158	18.631	251.37	286.184	0.137	0.186	7.952	18.631	17.118
2022-06-26 08:00	248400	8.331	-125.079	249.495	18.564	250.87	286.034	0.137	0.186	7.950	18.564	20.042
2022-06-26 08:15	249300	8.322	-124.545	249.914	18.515	250.489	285.901	0.137	0.186	7.933	18.515	15.26
2022-06-26 08:30	250200	8.319	-124.314	250.396	18.45	249.932	285.67	0.137	0.186	7.933	18.45	16.551
2022-06-26 08:45	251100	8.316	-124.171	250.67	18.408	249.636	285.593	0.137	0.186	7.919	18.408	13.579
2022-06-26 09:00	252000	8.317	-124.161	246.162	18.365	249.236	285.407	0.137	0.186	7.914	18.365	15.096
2022-06-26 09:15	252900	8.314	-124.021	250.124	18.327	248.883	285.236	0.137	0.185	7.915	18.327	13.839
2022-06-26 09:30	253800	8.310	-123.751	250.441	18.298	248.652	285.15	0.137	0.185	7.914	18.298	13.396
2022-06-26 09:45	254700	8.305	-123.463	251.312	18.29	248.469	284.993	0.137	0.185	7.911	18.29	15.604
2022-06-26 10:00	255600	8.313	-123.904	247.893	18.284	248.363	284.908	0.137	0.185	7.913	18.284	19.03
2022-06-26 10:15	256500	8.305	-123.491	251.002	18.281	248.256	284.807	0.137	0.185	7.908	18.281	15.84
2022-06-26 10:30	257400	8.300	-123.21	252.401	18.27	248.056	284.647	0.137	0.185	7.923	18.27	17.38
2022-06-26 10:45	258300	8.297	-123.017	253.36	18.257	247.815	284.447	0.136	0.185	7.920	18.257	21.279

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-26 11:00	259200	8.294	-122.85	249.047	18.259	247.733	284.342	0.136	0.185	7.941	18.259	13.941
2022-06-26 11:15	260100	8.289	-122.55	254.966	18.252	247.567	284.193	0.136	0.185	7.940	18.252	13.259
2022-06-26 11:30	261000	8.285	-122.356	255.603	18.261	247.479	284.04	0.136	0.185	7.954	18.261	12.71
2022-06-26 11:45	261900	8.281	-122.125	256.097	18.278	247.496	283.954	0.136	0.185	7.972	18.278	13.305
2022-06-26 12:00	262800	8.290	-122.631	253.588	18.294	247.586	283.956	0.136	0.185	7.976	18.294	22.657
2022-06-26 12:15	263700	8.282	-122.178	255.307	18.312	247.516	283.767	0.136	0.184	7.997	18.312	15.436
2022-06-26 12:30	264600	8.274	-121.772	255.231	18.334	247.607	283.73	0.136	0.184	8.005	18.334	16.31
2022-06-26 12:45	265500	8.276	-121.896	254.308	18.372	247.745	283.656	0.136	0.184	8.013	18.372	15.556
2022-06-26 13:00	266400	8.272	-121.655	251.035	18.415	247.835	283.489	0.136	0.184	8.043	18.415	14.795
2022-06-26 13:15	267300	8.277	-121.984	254.263	18.506	248.289	283.446	0.136	0.184	8.073	18.506	18.101
2022-06-26 13:30	268200	8.269	-121.551	254.43	18.545	248.376	283.306	0.136	0.184	8.109	18.545	19.573
2022-06-26 13:45	269100	8.271	-121.684	254.862	18.613	248.675	283.228	0.136	0.184	8.135	18.613	16.655
2022-06-26 14:00	270000	8.280	-122.194	250.854	18.659	248.905	283.203	0.136	0.184	8.153	18.659	23.308
2022-06-26 14:15	270900	8.280	-122.337	250.475	18.949	250.334	283.044	0.136	0.184	8.261	18.949	19.303
2022-06-26 14:30	271800	8.282	-122.44	251.23	18.903	249.825	282.751	0.136	0.184	8.315	18.903	13.832
2022-06-26 14:45	272700	8.277	-122.092	251.877	18.782	249.327	282.932	0.136	0.184	8.244	18.782	16.138
2022-06-26 15:00	273600	8.282	-122.473	246.996	19.039	250.482	282.662	0.136	0.184	8.367	19.039	13.24
2022-06-26 15:15	274500	8.287	-122.833	250.913	19.202	251.125	282.398	0.136	0.184	8.453	19.202	14.364
2022-06-26 15:30	275400	8.282	-122.507	251.688	19.113	250.827	282.606	0.136	0.184	8.404	19.113	14.793
2022-06-26 15:45	276300	8.300	-123.663	250.618	19.456	252.361	282.249	0.135	0.183	8.537	19.456	14.721
2022-06-26 16:00	277200	8.319	-124.855	248.555	19.636	253.238	282.146	0.135	0.183	8.621	19.636	14.391
2022-06-26 16:15	278100	8.298	-123.613	248.636	19.531	252.792	282.277	0.135	0.183	8.571	19.531	16.489
2022-06-26 16:30	279000	8.298	-123.658	248.813	19.618	253.105	282.106	0.135	0.183	8.598	19.618	14.953
2022-06-26 16:45	279900	8.314	-124.679	248.718	19.921	254.429	281.764	0.135	0.183	8.754	19.921	16.328
2022-06-26 17:00	280800	8.304	-124.097	246.178	19.87	254.174	281.785	0.135	0.183	8.697	19.87	13.788
2022-06-26 17:15	281700	8.310	-124.55	248.126	20.093	255.317	281.722	0.135	0.183	8.792	20.093	14.433
2022-06-26 17:30	282600	8.323	-125.356	247.561	20.33	256.359	281.462	0.135	0.183	8.883	20.33	14.442
2022-06-26 17:45	283500	8.320	-125.21	247.568	20.33	256.572	281.698	0.135	0.183	8.862	20.33	12.893
2022-06-26 18:00	284400	8.344	-126.598	242.836	20.483	257.197	281.482	0.135	0.183	8.916	20.483	18.754
2022-06-26 18:15	285300	8.337	-126.25	245.516	20.502	257.236	281.411	0.135	0.183	8.914	20.502	13.974
2022-06-26 18:30	286200	8.340	-126.476	245.504	20.62	257.766	281.301	0.135	0.183	8.947	20.62	23.411
2022-06-26 18:45	287100	8.338	-126.398	245.208	20.783	258.444	281.086	0.135	0.183	9.022	20.783	17.73
2022-06-26 19:00	288000	8.346	-126.898	238.88	20.887	258.822	280.889	0.135	0.183	9.049	20.887	19.279
2022-06-26 19:15	288900	8.344	-126.853	244.643	20.965	259.221	280.864	0.135	0.183	9.068	20.965	12.311
2022-06-26 19:30	289800	8.344	-126.843	245.268	21.004	259.349	280.777	0.135	0.183	9.074	21.004	14.326
2022-06-26 19:45	290700	8.350	-127.201	245.077	21.104	259.769	280.653	0.135	0.182	9.083	21.104	14.924
2022-06-26 20:00	291600	8.370	-128.376	241.327	21.149	260.013	280.659	0.135	0.182	9.090	21.149	19.648
2022-06-26 20:15	292500	8.370	-128.41	243.46	21.237	260.314	280.471	0.135	0.182	9.104	21.237	18.643
2022-06-26 20:30	293400	8.373	-128.644	243.191	21.31	260.539	280.296	0.135	0.182	9.108	21.31	14.51
2022-06-26 20:45	294300	8.376	-128.81	243.043	21.372	260.748	280.161	0.134	0.182	9.090	21.372	14.247
2022-06-26 21:00	295200	8.372	-128.601	238.52	21.418	260.813	279.969	0.134	0.182	9.097	21.418	14.902
2022-06-26 21:15	296100	8.375	-128.829	242.814	21.459	260.806	279.723	0.134	0.182	9.112	21.459	12.312
2022-06-26 21:30	297000	8.374	-128.77	243.522	21.459	260.77	279.683	0.134	0.182	9.075	21.459	11.398
2022-06-26 21:45	297900	8.378	-128.982	243.694	21.462	260.729	279.628	0.134	0.182	9.060	21.462	14.032
2022-06-26 22:00	298800	8.394	-129.881	238.241	21.455	260.644	279.571	0.134	0.182	9.037	21.455	17.812
2022-06-26 22:15	299700	8.384	-129.33	241.98	21.442	260.432	279.42	0.134	0.182	8.997	21.442	12.238
2022-06-26 22:30	300600	8.382	-129.178	242.163	21.421	260.244	279.337	0.134	0.182	8.958	21.421	11.838
2022-06-26 22:45	301500	8.386	-129.426	241.968	21.391	259.988	279.234	0.134	0.182	8.921	21.391	12.727

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-26 23:00	302400	8.382	-129.147	238.435	21.353	259.639	279.077	0.134	0.181	8.884	21.353	15.427
2022-06-26 23:15	303300	8.385	-129.304	241.703	21.317	259.327	278.949	0.134	0.181	8.840	21.317	16.505
2022-06-26 23:30	304200	8.380	-129.013	241.93	21.266	258.994	278.886	0.134	0.181	8.807	21.266	11.793
2022-06-26 23:45	305100	8.384	-129.223	242.514	21.219	258.64	278.775	0.134	0.181	8.781	21.219	12.48
2022-06-27 00:00	306000	8.394	-129.759	239.605	21.164	258.357	278.784	0.134	0.181	8.752	21.164	15.874
2022-06-27 00:15	306900	8.393	-129.654	241.148	21.092	257.851	278.649	0.134	0.181	8.721	21.092	12.519
2022-06-27 00:30	307800	8.392	-129.602	241.517	21.039	257.507	278.581	0.134	0.181	8.685	21.039	13.122
2022-06-27 00:45	308700	8.394	-129.688	241.539	20.991	257.18	278.503	0.134	0.181	8.644	20.991	12.071
2022-06-27 01:00	309600	8.386	-129.211	240.95	20.933	256.759	278.383	0.134	0.181	8.613	20.933	10.253
2022-06-27 01:15	310500	8.383	-129.025	242.161	20.874	256.417	278.356	0.134	0.181	8.572	20.874	10.985
2022-06-27 01:30	311400	8.385	-129.063	242.349	20.808	255.997	278.277	0.134	0.181	8.535	20.808	12.489
2022-06-27 01:45	312300	8.382	-128.882	242.883	20.759	255.69	278.228	0.134	0.181	8.497	20.759	11.694
2022-06-27 02:00	313200	8.392	-129.44	241.331	20.696	255.378	278.253	0.134	0.181	8.468	20.696	12.83
2022-06-27 02:15	314100	8.383	-128.915	243.241	20.637	255.014	278.198	0.134	0.181	8.413	20.637	10.59
2022-06-27 02:30	315000	8.385	-129.013	243.42	20.584	254.678	278.136	0.133	0.181	8.385	20.584	12.019
2022-06-27 02:45	315900	8.384	-128.908	244.056	20.534	254.378	278.101	0.133	0.181	8.338	20.534	10.96
2022-06-27 03:00	316800	8.385	-128.965	241.183	20.489	254.072	278.029	0.133	0.181	8.301	20.489	10.194
2022-06-27 03:15	317700	8.382	-128.739	243.489	20.441	253.826	278.039	0.133	0.181	8.266	20.441	10.219
2022-06-27 03:30	318600	8.382	-128.715	243.527	20.399	253.651	278.087	0.133	0.181	8.222	20.399	11.09
2022-06-27 03:45	319500	8.380	-128.615	244.107	20.337	253.268	278.031	0.133	0.181	8.189	20.337	10.131
2022-06-27 04:00	320400	8.392	-129.237	240.213	20.283	253.072	278.129	0.133	0.181	8.148	20.283	13.645
2022-06-27 04:15	321300	8.380	-128.522	243.87	20.226	252.768	278.126	0.133	0.181	8.113	20.226	10.115
2022-06-27 04:30	322200	8.379	-128.469	244.09	20.176	252.527	278.158	0.133	0.181	8.077	20.176	12.188
2022-06-27 04:45	323100	8.376	-128.26	243.706	20.13	252.377	278.259	0.134	0.181	8.042	20.13	11.86
2022-06-27 05:00	324000	8.370	-127.9	239.538	20.064	252.035	278.271	0.134	0.181	7.997	20.064	11.462
2022-06-27 05:15	324900	8.366	-127.678	244.536	20.007	251.78	278.322	0.134	0.181	7.974	20.007	10.965
2022-06-27 05:30	325800	8.360	-127.311	245.558	19.957	251.56	278.374	0.134	0.181	7.931	19.957	11.426
2022-06-27 05:45	326700	8.359	-127.196	245.79	19.901	251.337	278.454	0.134	0.181	7.910	19.901	10.262
2022-06-27 06:00	327600	8.369	-127.776	244.035	19.839	251.096	278.553	0.134	0.181	7.885	19.839	21.638
2022-06-27 06:15	328500	8.355	-126.91	245.816	19.781	250.881	278.657	0.134	0.181	7.853	19.781	15.338
2022-06-27 06:30	329400	8.350	-126.631	246.424	19.714	250.656	278.805	0.134	0.181	7.824	19.714	12.922
2022-06-27 06:45	330300	8.346	-126.393	247.027	19.665	250.443	278.86	0.134	0.181	7.797	19.665	13.371
2022-06-27 07:00	331200	8.346	-126.376	243.439	19.618	250.224	278.895	0.134	0.181	7.787	19.618	11.712
2022-06-27 07:15	332100	8.344	-126.195	246.693	19.566	250.047	279.003	0.134	0.181	7.768	19.566	12.343
2022-06-27 07:30	333000	8.338	-125.871	247.23	19.512	249.877	279.135	0.134	0.181	7.748	19.512	13.224
2022-06-27 07:45	333900	8.332	-125.52	247.759	19.465	249.771	279.298	0.134	0.182	7.731	19.465	13.235
2022-06-27 08:00	334800	8.340	-125.928	242.616	19.41	249.61	279.445	0.134	0.182	7.720	19.41	17.973
2022-06-27 08:15	335700	8.330	-125.339	244.519	19.362	249.446	279.548	0.134	0.182	7.698	19.362	15.922
2022-06-27 08:30	336600	8.324	-124.979	245.663	19.31	249.318	279.718	0.134	0.182	7.701	19.31	14.465
2022-06-27 08:45	337500	8.321	-124.815	246.062	19.273	249.199	279.805	0.134	0.182	7.687	19.273	14.803
2022-06-27 09:00	338400	8.323	-124.879	242.025	19.244	249.167	279.943	0.134	0.182	7.692	19.244	20.794
2022-06-27 09:15	339300	8.314	-124.352	246.481	19.214	249.131	280.086	0.134	0.182	7.684	19.214	15.032
2022-06-27 09:30	340200	8.313	-124.331	247.134	19.194	249.125	280.195	0.134	0.182	7.672	19.194	13.652
2022-06-27 09:45	341100	8.309	-124.09	247.566	19.18	249.19	280.357	0.135	0.182	7.678	19.18	13.464
2022-06-27 10:00	342000	8.319	-124.657	244.486	19.163	249.275	280.552	0.135	0.182	7.680	19.163	17.565
2022-06-27 10:15	342900	8.312	-124.259	246.41	19.16	249.324	280.623	0.135	0.182	7.673	19.16	15.469
2022-06-27 10:30	343800	8.307	-123.954	247.063	19.159	249.446	280.768	0.135	0.182	7.671	19.159	13.544
2022-06-27 10:45	344700	8.299	-123.494	248.534	19.124	249.432	280.965	0.135	0.183	7.677	19.124	16.857

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-27 11:00	345600	8.300	-123.525	244.374	19.131	249.517	281.019	0.135	0.183	7.684	19.131	15.507
2022-06-27 11:15	346500	8.293	-123.138	249.125	19.143	249.724	281.18	0.135	0.183	7.683	19.143	13.757
2022-06-27 11:30	347400	8.289	-122.964	249.399	19.154	249.897	281.31	0.135	0.183	7.698	19.154	13.401
2022-06-27 11:45	348300	8.287	-122.809	249.85	19.182	250.164	281.44	0.135	0.183	7.696	19.182	15.26
2022-06-27 12:00	349200	8.298	-123.47	247.33	19.214	250.505	281.627	0.135	0.183	7.699	19.214	21.146
2022-06-27 12:15	350100	8.284	-122.657	248.195	19.225	250.694	281.774	0.135	0.183	7.716	19.225	16.027
2022-06-27 12:30	351000	8.286	-122.776	249.454	19.206	250.767	281.968	0.135	0.183	7.747	19.206	12.59
2022-06-27 12:45	351900	8.286	-122.802	250.019	19.239	250.991	282.025	0.135	0.183	7.764	19.239	17.069
2022-06-27 13:00	352800	8.282	-122.566	245.635	19.253	251.109	282.069	0.135	0.183	7.777	19.253	14.823
2022-06-27 13:15	353700	8.278	-122.352	251.106	19.303	251.489	282.199	0.135	0.183	7.799	19.303	13.599
2022-06-27 13:30	354600	8.279	-122.454	251.929	19.355	251.855	282.291	0.135	0.183	7.815	19.355	13.221
2022-06-27 13:45	355500	8.273	-122.125	252.527	19.332	251.784	282.35	0.136	0.184	7.826	19.332	14.814
2022-06-27 14:00	356400	8.291	-123.172	245.449	19.417	252.372	282.498	0.136	0.184	7.894	19.417	16.969
2022-06-27 14:15	357300	8.279	-122.545	251.488	19.523	253.108	282.682	0.136	0.184	7.958	19.523	15.943
2022-06-27 14:30	358200	8.275	-122.33	251.111	19.588	253.568	282.799	0.136	0.184	7.955	19.588	14.855
2022-06-27 14:45	359100	8.275	-122.304	251.192	19.564	253.432	282.797	0.136	0.184	7.955	19.564	14.286
2022-06-27 15:00	360000	8.278	-122.519	247.261	19.635	253.907	282.895	0.136	0.184	8.002	19.635	13.786
2022-06-27 15:15	360900	8.285	-122.941	250.291	19.718	254.41	282.956	0.136	0.184	8.065	19.718	13.29
2022-06-27 15:30	361800	8.280	-122.731	250.47	19.808	254.98	283.052	0.136	0.184	8.108	19.808	13.757
2022-06-27 15:45	362700	8.279	-122.666	250.684	19.795	254.917	283.06	0.136	0.184	8.101	19.795	13.971
2022-06-27 16:00	363600	8.298	-123.777	246.851	19.944	255.862	283.214	0.136	0.184	8.199	19.944	23.502
2022-06-27 16:15	364500	8.286	-123.115	249.969	19.952	255.944	283.255	0.136	0.184	8.221	19.952	24.948
2022-06-27 16:30	365400	8.298	-123.792	249.061	20.035	256.418	283.283	0.136	0.184	8.284	20.035	13.967
2022-06-27 16:45	366300	8.294	-123.63	249.373	20.074	256.67	283.33	0.136	0.184	8.304	20.074	16.735
2022-06-27 17:00	367200	8.303	-124.176	242.8	20.16	257.166	283.359	0.136	0.184	8.381	20.16	14.734
2022-06-27 17:15	368100	8.304	-124.276	247.84	20.247	257.722	283.454	0.136	0.184	8.453	20.247	12.397
2022-06-27 17:30	369000	8.304	-124.223	247.947	20.249	257.729	283.447	0.136	0.184	8.457	20.249	14.904
2022-06-27 17:45	369900	8.312	-124.743	247.28	20.366	258.409	283.499	0.136	0.184	8.555	20.366	12.949
2022-06-27 18:00	370800	8.333	-125.957	241.939	20.404	258.683	283.576	0.136	0.184	8.588	20.404	16.026
2022-06-27 18:15	371700	8.316	-124.979	246.46	20.431	258.886	283.638	0.136	0.184	8.573	20.431	14.338
2022-06-27 18:30	372600	8.328	-125.744	245.673	20.581	259.738	283.68	0.136	0.184	8.651	20.581	14.987
2022-06-27 18:45	373500	8.332	-126.019	245.194	20.615	259.96	283.725	0.136	0.184	8.671	20.615	14.131
2022-06-27 19:00	374400	8.330	-125.904	239.519	20.663	260.287	283.797	0.136	0.184	8.701	20.663	14.601
2022-06-27 19:15	375300	8.343	-126.688	243.584	20.787	261.102	283.951	0.136	0.185	8.763	20.787	11.653
2022-06-27 19:30	376200	8.344	-126.734	243.649	20.81	261.283	284.009	0.136	0.185	8.764	20.81	12.263
2022-06-27 19:45	377100	8.343	-126.7	243.654	20.865	261.739	284.185	0.136	0.185	8.801	20.865	15.14
2022-06-27 20:00	378000	8.355	-127.42	238.27	20.909	262.2	284.426	0.137	0.185	8.816	20.909	24.218
2022-06-27 20:15	378900	8.359	-127.695	241.791	20.978	262.917	284.794	0.137	0.185	8.850	20.978	12.898
2022-06-27 20:30	379800	8.358	-127.666	242.521	21.052	264	285.53	0.137	0.186	8.888	21.052	14.189
2022-06-27 20:45	380700	8.374	-128.562	241.989	21.082	264.745	286.158	0.137	0.186	8.907	21.082	17.698
2022-06-27 21:00	381600	8.375	-128.653	239.431	21.094	265.359	286.752	0.138	0.186	8.924	21.094	14.21
2022-06-27 21:15	382500	8.377	-128.729	241.694	21.087	265.853	287.328	0.138	0.187	8.928	21.087	11.793
2022-06-27 21:30	383400	8.373	-128.51	241.794	21.065	266.147	287.774	0.138	0.187	8.927	21.065	13.89
2022-06-27 21:45	384300	8.374	-128.57	241.625	21.038	266.588	288.411	0.139	0.187	8.920	21.038	13.875
2022-06-27 22:00	385200	8.388	-129.33	238.337	21.011	266.899	288.912	0.139	0.188	8.898	21.011	14.898
2022-06-27 22:15	386100	8.382	-128.992	239.622	20.977	267.417	289.676	0.139	0.188	8.903	20.977	12.386
2022-06-27 22:30	387000	8.379	-128.796	240.442	20.947	267.616	290.069	0.139	0.189	8.866	20.947	11.461
2022-06-27 22:45	387900	8.379	-128.784	240.833	20.924	268.153	290.794	0.140	0.189	8.861	20.924	14.441

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-27 23:00	388800	8.377	-128.663	237.686	20.885	268.464	291.362	0.140	0.189	8.838	20.885	11.325
2022-06-27 23:15	389700	8.380	-128.796	240.204	20.854	268.851	291.973	0.140	0.190	8.819	20.854	11.287
2022-06-27 23:30	390600	8.375	-128.546	240.957	20.821	269.179	292.527	0.141	0.190	8.798	20.821	10.798
2022-06-27 23:45	391500	8.376	-128.548	241.155	20.796	269.343	292.856	0.141	0.190	8.774	20.796	11.973
2022-06-28 00:00	392400	8.389	-129.29	237.891	20.766	269.508	293.219	0.141	0.191	8.754	20.766	17.238
2022-06-28 00:15	393300	8.380	-128.765	241.501	20.744	269.74	293.61	0.141	0.191	8.749	20.744	13.821
2022-06-28 00:30	394200	8.384	-128.977	241.443	20.718	269.874	293.914	0.141	0.191	8.726	20.718	11.068
2022-06-28 00:45	395100	8.390	-129.29	241.415	20.686	269.756	293.981	0.141	0.191	8.696	20.686	11.534
2022-06-28 01:00	396000	8.387	-129.12	236.84	20.653	269.509	293.914	0.141	0.191	8.668	20.653	10.891
2022-06-28 01:15	396900	8.384	-128.93	241.195	20.612	269.216	293.843	0.141	0.191	8.640	20.612	10.139
2022-06-28 01:30	397800	8.384	-128.903	241.694	20.575	268.817	293.637	0.141	0.191	8.593	20.575	10.094
2022-06-28 01:45	398700	8.378	-128.543	242.02	20.528	268.234	293.282	0.141	0.191	8.550	20.528	12.607
2022-06-28 02:00	399600	8.392	-129.337	238.53	20.474	267.668	292.998	0.141	0.190	8.503	20.474	15.746
2022-06-28 02:15	400500	8.382	-128.77	242.669	20.428	267.209	292.776	0.141	0.190	8.473	20.428	11.534
2022-06-28 02:30	401400	8.384	-128.841	243.081	20.363	266.462	292.353	0.140	0.190	8.433	20.363	10.51
2022-06-28 02:45	402300	8.381	-128.613	243.355	20.29	265.712	291.979	0.140	0.190	8.402	20.29	11.746
2022-06-28 03:00	403200	8.377	-128.365	233.666	20.226	264.946	291.529	0.140	0.189	8.371	20.226	10.788
2022-06-28 03:15	404100	8.373	-128.107	243.692	20.186	264.644	291.439	0.140	0.189	8.340	20.186	10.535
2022-06-28 03:30	405000	8.369	-127.871	244.111	20.123	264.018	291.138	0.140	0.189	8.304	20.123	9.813
2022-06-28 03:45	405900	8.370	-127.904	244.478	20.041	263.209	290.748	0.140	0.189	8.276	20.041	10.728
2022-06-28 04:00	406800	8.378	-128.343	238.404	19.973	262.539	290.427	0.139	0.189	8.243	19.973	14.525
2022-06-28 04:15	407700	8.367	-127.645	244.815	19.908	261.906	290.122	0.139	0.189	8.197	19.908	11.635
2022-06-28 04:30	408600	8.368	-127.673	245.396	19.828	261.157	289.781	0.139	0.188	8.162	19.828	11.155
2022-06-28 04:45	409500	8.361	-127.27	246.021	19.769	260.651	289.587	0.139	0.188	8.127	19.769	13.541
2022-06-28 05:00	410400	8.358	-127.101	244.474	19.712	260.202	289.438	0.139	0.188	8.092	19.712	10.995
2022-06-28 05:15	411300	8.352	-126.693	247.013	19.646	259.628	289.204	0.139	0.188	8.061	19.646	10.669
2022-06-28 05:30	412200	8.354	-126.801	247.082	19.579	259.078	289.003	0.139	0.188	8.020	19.579	9.199
2022-06-28 05:45	413100	8.349	-126.481	247.556	19.519	258.637	288.877	0.139	0.188	7.981	19.519	10.61
2022-06-28 06:00	414000	8.348	-126.379	245.499	19.455	258.164	288.746	0.139	0.188	7.950	19.455	15.677
2022-06-28 06:15	414900	8.342	-126.059	247.699	19.396	257.763	288.66	0.139	0.188	7.928	19.396	11.962
2022-06-28 06:30	415800	8.341	-125.952	247.84	19.331	257.281	288.52	0.139	0.188	7.892	19.331	14.685
2022-06-28 06:45	416700	8.338	-125.74	248.567	19.283	256.974	288.477	0.139	0.188	7.858	19.283	11.628
2022-06-28 07:00	417600	8.329	-125.225	244.676	19.23	256.608	288.392	0.138	0.187	7.826	19.23	17
2022-06-28 07:15	418500	8.328	-125.144	248.934	19.183	256.334	288.372	0.138	0.187	7.809	19.183	11.038
2022-06-28 07:30	419400	8.323	-124.831	249.612	19.142	256.058	288.316	0.138	0.187	7.783	19.142	15.361
2022-06-28 07:45	420300	8.319	-124.617	249.74	19.099	255.818	288.313	0.138	0.187	7.764	19.099	11.101
2022-06-28 08:00	421200	8.324	-124.884	245.051	19.06	255.637	288.353	0.138	0.187	7.739	19.06	21.178
2022-06-28 08:15	422100	8.318	-124.538	248.684	19.019	255.396	288.338	0.138	0.187	7.714	19.019	17.761
2022-06-28 08:30	423000	8.316	-124.409	249.14	18.978	255.16	288.323	0.138	0.187	7.704	18.978	14.105
2022-06-28 08:45	423900	8.311	-124.087	248.827	18.943	254.977	288.331	0.138	0.187	7.686	18.943	19.515
2022-06-28 09:00	424800	8.309	-123.947	242.759	18.916	254.816	288.323	0.138	0.187	7.676	18.916	14.754
2022-06-28 09:15	425700	8.309	-123.971	248.229	18.879	254.666	288.381	0.138	0.187	7.672	18.879	13.242
2022-06-28 09:30	426600	8.308	-123.897	248.515	18.856	254.582	288.431	0.138	0.187	7.664	18.856	13.444
2022-06-28 09:45	427500	8.303	-123.601	249.023	18.838	254.493	288.444	0.138	0.187	7.660	18.838	15.757
2022-06-28 10:00	428400	8.311	-124.021	248.336	18.811	254.436	288.542	0.139	0.188	7.653	18.811	27.907
2022-06-28 10:15	429300	8.298	-123.308	249.452	18.784	254.384	288.652	0.139	0.188	7.653	18.784	15.804
2022-06-28 10:30	430200	8.304	-123.641	249.19	18.769	254.346	288.708	0.139	0.188	7.642	18.769	15.467
2022-06-28 10:45	431100	8.304	-123.61	249.395	18.751	254.329	288.797	0.139	0.188	7.639	18.751	17.298

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-28 11:00	432000	8.297	-123.193	245.811	18.738	254.312	288.863	0.139	0.188	7.638	18.738	19.447
2022-06-28 11:15	432900	8.296	-123.127	250.112	18.719	254.326	288.998	0.139	0.188	7.620	18.719	15.015
2022-06-28 11:30	433800	8.296	-123.146	249.852	18.77	254.621	289.014	0.139	0.188	7.633	18.77	14.052
2022-06-28 11:45	434700	8.292	-122.91	250.224	18.717	254.521	289.232	0.139	0.188	7.659	18.717	12.169
2022-06-28 12:00	435600	8.303	-123.529	247.285	18.702	254.635	289.457	0.139	0.188	7.677	18.702	15.519
2022-06-28 12:15	436500	8.297	-123.227	249.042	18.71	254.82	289.616	0.139	0.188	7.706	18.71	13.313
2022-06-28 12:30	437400	8.290	-122.793	249.259	18.735	255.05	289.72	0.139	0.188	7.704	18.735	13.417
2022-06-28 12:45	438300	8.292	-122.914	249.361	18.742	255.276	289.933	0.139	0.188	7.722	18.742	12.133
2022-06-28 13:00	439200	8.294	-123.041	245.516	18.734	255.325	290.037	0.139	0.189	7.751	18.734	12.818
2022-06-28 13:15	440100	8.287	-122.664	250.286	18.728	255.463	290.233	0.139	0.189	7.772	18.728	14.758
2022-06-28 13:30	441000	8.286	-122.588	250.746	18.738	255.612	290.34	0.139	0.189	7.775	18.738	12.194
2022-06-28 13:45	441900	8.284	-122.507	251.049	18.742	255.793	290.517	0.139	0.189	7.811	18.742	12.844
2022-06-28 14:00	442800	8.295	-123.122	249.442	18.759	256.053	290.709	0.140	0.189	7.820	18.759	12.277
2022-06-28 14:15	443700	8.288	-122.7	250.329	18.772	256.284	290.883	0.140	0.189	7.865	18.772	12.1
2022-06-28 14:30	444600	8.286	-122.607	250.882	18.744	256.246	291.018	0.140	0.189	7.882	18.744	12.961
2022-06-28 14:45	445500	8.291	-122.888	250.646	18.767	256.475	291.134	0.140	0.189	7.899	18.767	12.603
2022-06-28 15:00	446400	8.294	-123.057	245.749	18.775	256.627	291.258	0.140	0.189	7.961	18.775	14.687
2022-06-28 15:15	447300	8.291	-122.886	250.048	18.767	256.711	291.404	0.140	0.189	8.002	18.767	11.414
2022-06-28 15:30	448200	8.292	-122.955	250.093	18.756	256.735	291.498	0.140	0.189	8.037	18.756	11.091
2022-06-28 15:45	449100	8.293	-122.983	250.107	18.752	256.787	291.585	0.140	0.190	8.047	18.752	12.361
2022-06-28 16:00	450000	8.309	-123.868	246.276	18.746	256.957	291.815	0.140	0.190	8.103	18.746	20.672
2022-06-28 16:15	450900	8.305	-123.696	249.323	18.746	257.064	291.935	0.140	0.190	8.151	18.746	14.647
2022-06-28 16:30	451800	8.305	-123.687	249.585	18.752	257.153	291.997	0.140	0.190	8.171	18.752	14.36
2022-06-28 16:45	452700	8.306	-123.742	249.488	18.763	257.305	292.105	0.140	0.190	8.212	18.763	11.896
2022-06-28 17:00	453600	8.312	-124.08	246.453	18.771	257.361	292.113	0.140	0.190	8.241	18.771	15.54
2022-06-28 17:15	454500	8.315	-124.254	248.539	18.787	257.598	292.282	0.140	0.190	8.322	18.787	12.415
2022-06-28 17:30	455400	8.323	-124.681	248.296	18.801	257.751	292.366	0.140	0.190	8.364	18.801	10.548
2022-06-28 17:45	456300	8.325	-124.81	247.981	18.814	257.923	292.477	0.140	0.190	8.391	18.814	10.877
2022-06-28 18:00	457200	8.342	-125.773	245.005	18.828	258.2	292.705	0.141	0.190	8.419	18.828	20.42
2022-06-28 18:15	458100	8.337	-125.537	247.211	18.841	258.437	292.889	0.141	0.190	8.467	18.841	13.146
2022-06-28 18:30	459000	8.339	-125.639	247.652	18.848	258.815	293.274	0.141	0.191	8.504	18.848	12.198
2022-06-28 18:45	459900	8.345	-125.983	247.409	18.857	259.249	293.713	0.141	0.191	8.524	18.857	11.76
2022-06-28 19:00	460800	8.343	-125.873	239.789	18.86	259.702	294.203	0.141	0.191	8.549	18.86	12.566
2022-06-28 19:15	461700	8.341	-125.763	246.751	18.861	260.352	294.936	0.142	0.192	8.558	18.861	9.428
2022-06-28 19:30	462600	8.342	-125.799	247.039	18.857	260.748	295.41	0.142	0.192	8.559	18.857	10.577
2022-06-28 19:45	463500	8.337	-125.515	247.306	18.853	261.376	296.147	0.142	0.192	8.565	18.853	10.878
2022-06-28 20:00	464400	8.350	-126.231	244.977	18.853	262.339	297.236	0.143	0.193	8.584	18.853	13.884
2022-06-28 20:15	465300	8.347	-126.104	247.099	18.852	263.104	298.113	0.143	0.194	8.582	18.852	15.178
2022-06-28 20:30	466200	8.346	-126.052	247.261	18.846	263.632	298.748	0.144	0.194	8.585	18.846	14.36
2022-06-28 20:45	467100	8.342	-125.825	248.138	18.844	264.882	300.177	0.144	0.195	8.605	18.844	12.249
2022-06-28 21:00	468000	8.344	-125.897	241.801	18.838	265.693	301.134	0.145	0.196	8.608	18.838	10.922
2022-06-28 21:15	468900	8.341	-125.73	247.068	18.826	266.362	301.974	0.145	0.196	8.601	18.826	11.049
2022-06-28 21:30	469800	8.341	-125.728	247.38	18.815	267.334	303.147	0.146	0.197	8.588	18.815	10.916
2022-06-28 21:45	470700	8.338	-125.561	247.449	18.804	268.173	304.173	0.146	0.198	8.584	18.804	9.652
2022-06-28 22:00	471600	8.346	-126.019	242.616	18.791	269.16	305.374	0.147	0.198	8.577	18.791	14.021
2022-06-28 22:15	472500	8.339	-125.575	247.454	18.776	269.967	306.392	0.147	0.199	8.562	18.776	12.259
2022-06-28 22:30	473400	8.336	-125.406	247.909	18.755	270.866	307.552	0.148	0.200	8.535	18.755	11.3
2022-06-28 22:45	474300	8.331	-125.11	248.4	18.74	271.348	308.197	0.148	0.200	8.520	18.74	12.708

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-28 23:00	475200	8.321	-124.571	244.371	18.721	271.861	308.911	0.149	0.201	8.479	18.721	10.816
2022-06-28 23:15	476100	8.314	-124.13	248.656	18.699	272.431	309.704	0.149	0.201	8.471	18.699	10.116
2022-06-28 23:30	477000	8.309	-123.858	248.934	18.68	273.22	310.731	0.149	0.202	8.439	18.68	10.209
2022-06-28 23:45	477900	8.307	-123.758	249.173	18.654	273.723	311.474	0.150	0.202	8.420	18.654	9.179
2022-06-29 00:00	478800	8.310	-123.88	246.722	18.631	274.242	312.221	0.150	0.203	8.389	18.631	13.18
2022-06-29 00:15	479700	8.304	-123.534	249.8	18.606	274.885	313.126	0.151	0.204	8.374	18.606	11.091
2022-06-29 00:30	480600	8.300	-123.31	250.215	18.586	275.288	313.721	0.151	0.204	8.350	18.586	11.067
2022-06-29 00:45	481500	8.291	-122.807	250.529	18.553	275.682	314.399	0.151	0.204	8.341	18.553	11.094
2022-06-29 01:00	482400	8.288	-122.626	247.628	18.528	275.853	314.762	0.151	0.205	8.309	18.528	9.7
2022-06-29 01:15	483300	8.279	-122.12	250.971	18.499	275.992	315.12	0.152	0.205	8.297	18.499	12.928
2022-06-29 01:30	484200	8.279	-122.101	251.19	18.478	276.126	315.415	0.152	0.205	8.285	18.478	9.62
2022-06-29 01:45	485100	8.280	-122.108	250.758	18.445	276.053	315.564	0.152	0.205	8.268	18.445	8.529
2022-06-29 02:00	486000	8.283	-122.285	249.373	18.425	275.948	315.576	0.152	0.205	8.238	18.425	22.535
2022-06-29 02:15	486900	8.273	-121.744	251.838	18.409	275.659	315.361	0.152	0.205	8.222	18.409	10.497
2022-06-29 02:30	487800	8.269	-121.46	251.703	18.38	275.202	315.033	0.152	0.205	8.195	18.38	10.842
2022-06-29 02:45	488700	8.269	-121.45	252.077	18.355	274.583	314.497	0.151	0.204	8.183	18.355	9.407
2022-06-29 03:00	489600	8.263	-121.15	248.548	18.329	273.905	313.901	0.151	0.204	8.167	18.329	10.695
2022-06-29 03:15	490500	8.255	-120.671	252.623	18.299	273.098	313.182	0.151	0.204	8.150	18.299	8.412
2022-06-29 03:30	491400	8.256	-120.687	252.947	18.28	272.509	312.638	0.150	0.203	8.127	18.28	9.497
2022-06-29 03:45	492300	8.249	-120.277	253.498	18.249	271.563	311.76	0.150	0.203	8.098	18.249	9.589
2022-06-29 04:00	493200	8.257	-120.761	251.526	18.213	270.71	311.031	0.150	0.202	8.083	18.213	12.875
2022-06-29 04:15	494100	8.246	-120.111	254.07	18.182	269.924	310.34	0.149	0.202	8.065	18.182	10.54
2022-06-29 04:30	495000	8.240	-119.743	255.036	18.152	269.182	309.685	0.149	0.201	8.038	18.152	11.909
2022-06-29 04:45	495900	8.237	-119.591	255.26	18.113	268.501	309.17	0.149	0.201	8.020	18.113	9.228
2022-06-29 05:00	496800	8.232	-119.267	251.803	18.079	267.609	308.37	0.148	0.200	8.002	18.079	11.901
2022-06-29 05:15	497700	8.226	-118.935	255.698	18.044	266.812	307.693	0.148	0.200	7.980	18.044	8.931
2022-06-29 05:30	498600	8.223	-118.737	255.293	18.011	266.085	307.078	0.148	0.200	7.958	18.011	9.716
2022-06-29 05:45	499500	8.218	-118.437	255.734	17.97	265.332	306.482	0.147	0.199	7.946	17.97	9.223
2022-06-29 06:00	500400	8.226	-118.864	254.978	17.937	264.896	306.203	0.147	0.199	7.927	17.937	13.275
2022-06-29 06:15	501300	8.212	-118.103	256.709	17.902	264.288	305.738	0.147	0.199	7.905	17.902	10.03
2022-06-29 06:30	502200	8.207	-117.795	257.606	17.859	263.595	305.227	0.147	0.198	7.894	17.859	10.326
2022-06-29 06:45	503100	8.207	-117.786	257.739	17.822	262.945	304.723	0.146	0.198	7.883	17.822	9.957
2022-06-29 07:00	504000	8.201	-117.39	255.045	17.785	262.341	304.271	0.146	0.198	7.863	17.785	10.456
2022-06-29 07:15	504900	8.201	-117.376	257.591	17.753	261.804	303.868	0.146	0.198	7.852	17.753	13.424
2022-06-29 07:30	505800	8.190	-116.739	257.725	17.713	261.342	303.596	0.146	0.197	7.842	17.713	9.45
2022-06-29 07:45	506700	8.189	-116.675	257.682	17.683	260.866	303.247	0.146	0.197	7.826	17.683	9.878
2022-06-29 08:00	507600	8.194	-116.973	256.983	17.648	260.371	302.903	0.145	0.197	7.812	17.648	15.699
2022-06-29 08:15	508500	8.183	-116.31	258.488	17.624	260.05	302.693	0.145	0.197	7.809	17.624	11.966
2022-06-29 08:30	509400	8.182	-116.291	258.307	17.595	259.611	302.377	0.145	0.197	7.806	17.595	11.851
2022-06-29 08:45	510300	8.177	-115.964	258.486	17.579	259.335	302.164	0.145	0.196	7.789	17.579	11.399
2022-06-29 09:00	511200	8.178	-116.036	254.947	17.557	259.033	301.957	0.145	0.196	7.784	17.557	11.681
2022-06-29 09:15	512100	8.174	-115.821	257.594	17.537	258.701	301.71	0.145	0.196	7.778	17.537	10.378
2022-06-29 09:30	513000	8.171	-115.592	257.308	17.515	258.413	301.519	0.145	0.196	7.763	17.515	10.051
2022-06-29 09:45	513900	8.168	-115.421	257.794	17.501	258.113	301.264	0.145	0.196	7.759	17.501	10.375
2022-06-29 10:00	514800	8.176	-115.871	252.623	17.493	258.12	301.326	0.145	0.196	7.756	17.493	15.647
2022-06-29 10:15	515700	8.168	-115.43	256.33	17.49	257.913	301.106	0.145	0.196	7.748	17.49	13.372
2022-06-29 10:30	516600	8.161	-115.054	256.681	17.484	257.887	301.111	0.145	0.196	7.737	17.484	13.72
2022-06-29 10:45	517500	8.160	-115.001	258.009	17.467	257.502	300.776	0.144	0.196	7.725	17.467	12.009

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-29 11:00	518400	8.159	-114.944	256.757	17.463	257.311	300.583	0.144	0.195	7.732	17.463	13.498
2022-06-29 11:15	519300	8.161	-115.037	257.236	17.528	257.57	300.448	0.144	0.195	7.739	17.528	10.32
2022-06-29 11:30	520200	8.157	-114.806	257.887	17.482	257.333	300.478	0.144	0.195	7.742	17.482	11.182
2022-06-29 11:45	521100	8.159	-114.965	259.132	17.517	257.464	300.398	0.144	0.195	7.755	17.517	10.4
2022-06-29 12:00	522000	8.165	-115.304	257.003	17.508	257.356	300.332	0.144	0.195	7.756	17.508	16.113
2022-06-29 12:15	522900	8.153	-114.586	260.274	17.49	257.25	300.328	0.144	0.195	7.739	17.49	13.089
2022-06-29 12:30	523800	8.155	-114.715	260.631	17.53	257.428	300.272	0.144	0.195	7.751	17.53	13.109
2022-06-29 12:45	524700	8.151	-114.505	260.493	17.535	257.431	300.236	0.144	0.195	7.756	17.535	12.52
2022-06-29 13:00	525600	8.155	-114.744	252.992	17.524	257.221	300.07	0.144	0.195	7.779	17.524	13.822
2022-06-29 13:15	526500	8.155	-114.72	261.275	17.507	257.068	300.003	0.144	0.195	7.778	17.507	12.794
2022-06-29 13:30	527400	8.151	-114.51	262.069	17.534	257.242	300.028	0.144	0.195	7.778	17.534	12.958
2022-06-29 13:45	528300	8.154	-114.646	261.635	17.532	257.175	299.96	0.144	0.195	7.799	17.532	12.648
2022-06-29 14:00	529200	8.157	-114.825	259.055	17.52	257.19	300.061	0.144	0.195	7.804	17.52	14.508
2022-06-29 14:15	530100	8.159	-114.951	262.479	17.564	257.441	300.056	0.144	0.195	7.832	17.564	14.608
2022-06-29 14:30	531000	8.164	-115.278	262.262	17.643	257.851	300.004	0.144	0.195	7.895	17.643	13.329
2022-06-29 14:45	531900	8.159	-114.994	263.242	17.604	257.59	299.962	0.144	0.195	7.884	17.604	12.35
2022-06-29 15:00	532800	8.162	-115.199	260.035	17.691	258.087	299.962	0.144	0.195	7.928	17.691	11.543
2022-06-29 15:15	533700	8.159	-115.013	263.061	17.665	257.894	299.912	0.144	0.195	7.934	17.665	11.722
2022-06-29 15:30	534600	8.164	-115.28	263.49	17.692	258.017	299.877	0.144	0.195	7.965	17.692	11.428
2022-06-29 15:45	535500	8.164	-115.328	263.428	17.765	258.44	299.879	0.144	0.195	7.998	17.765	10.797
2022-06-29 16:00	536400	8.178	-116.177	258.674	17.882	259.167	299.946	0.144	0.195	8.077	17.882	19.219
2022-06-29 16:15	537300	8.168	-115.607	262.355	17.842	258.987	300.005	0.144	0.195	8.028	17.842	12.943
2022-06-29 16:30	538200	8.173	-115.9	262.524	17.89	259.303	300.048	0.144	0.195	8.088	17.89	13.313
2022-06-29 16:45	539100	8.178	-116.198	262.231	17.978	259.866	300.115	0.144	0.195	8.132	17.978	11.992
2022-06-29 17:00	540000	8.181	-116.401	258.8	18.021	260.099	300.105	0.144	0.195	8.167	18.021	10.66
2022-06-29 17:15	540900	8.193	-117.13	260.526	18.204	261.242	300.212	0.144	0.195	8.219	18.204	12.298
2022-06-29 17:30	541800	8.189	-116.858	260.686	18.083	260.475	300.128	0.144	0.195	8.245	18.083	12.717
2022-06-29 17:45	542700	8.184	-116.594	261.172	18.103	260.694	300.248	0.144	0.195	8.214	18.103	12.365
2022-06-29 18:00	543600	8.275	-122.085	250.017	19.029	266.384	300.676	0.144	0.195	8.777	19.029	14.76
2022-06-29 18:15	544500	8.206	-117.888	259.446	18.262	261.659	300.311	0.144	0.195	8.380	18.262	12.599
2022-06-29 18:30	545400	8.200	-117.552	259.825	18.319	262.08	300.414	0.144	0.195	8.389	18.319	12.174
2022-06-29 18:45	546300	8.190	-116.963	260.123	18.224	261.524	300.402	0.144	0.195	8.367	18.224	12.361
2022-06-29 19:00	547200	8.185	-116.682	256.364	18.16	261.097	300.334	0.144	0.195	8.295	18.16	11.982
2022-06-29 19:15	548100	8.197	-117.445	259.096	18.367	262.449	300.519	0.144	0.195	8.414	18.367	11.245
2022-06-29 19:30	549000	8.210	-118.198	257.642	18.484	263.071	300.464	0.144	0.195	8.472	18.484	11.813
2022-06-29 19:45	549900	8.235	-119.717	255.262	18.737	264.879	300.873	0.145	0.196	8.571	18.737	10.462
2022-06-29 20:00	550800	8.233	-119.572	254.43	18.625	264.067	300.676	0.144	0.195	8.553	18.625	16.857
2022-06-29 20:15	551700	8.232	-119.505	256.132	18.699	264.639	300.843	0.145	0.196	8.556	18.699	12.947
2022-06-29 20:30	552600	8.244	-120.244	255.16	18.848	265.512	300.867	0.145	0.196	8.697	18.848	11.428
2022-06-29 20:45	553500	8.231	-119.467	256.075	18.74	264.915	300.889	0.145	0.196	8.626	18.74	13.989
2022-06-29 21:00	554400	8.219	-118.763	250.529	18.655	264.298	300.744	0.145	0.195	8.583	18.655	12.556
2022-06-29 21:15	555300	8.238	-119.977	254.168	18.919	265.758	300.679	0.144	0.195	8.760	18.919	11.195
2022-06-29 21:30	556200	8.265	-121.582	252.237	19.114	267.521	301.405	0.145	0.196	8.766	19.114	10.036
2022-06-29 21:45	557100	8.268	-121.732	251.457	19.154	267.525	301.15	0.145	0.196	8.824	19.154	13.762
2022-06-29 22:00	558000	8.276	-122.192	247.936	19.182	267.625	301.083	0.145	0.196	8.874	19.182	13.889
2022-06-29 22:15	558900	8.292	-123.181	250.32	19.364	268.777	301.202	0.145	0.196	8.935	19.364	10.602
2022-06-29 22:30	559800	8.286	-122.871	250.89	19.362	268.748	301.183	0.145	0.196	8.960	19.362	11.373
2022-06-29 22:45	560700	8.308	-124.207	249.569	19.659	270.878	301.651	0.145	0.196	9.015	19.659	10.986

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-29 23:00	561600	8.320	-124.898	246.147	19.683	270.809	301.418	0.145	0.196	9.071	19.683	10.547
2022-06-29 23:15	562500	8.341	-126.188	246.736	19.847	271.879	301.561	0.145	0.196	9.171	19.847	9.133
2022-06-29 23:30	563400	8.336	-125.914	246.386	19.92	272.252	301.509	0.145	0.196	9.221	19.92	9.554
2022-06-29 23:45	564300	8.343	-126.352	246.076	19.966	272.804	301.828	0.145	0.196	9.172	19.966	10.627
2022-06-30 00:00	565200	8.361	-127.423	241.88	20.087	273.562	301.89	0.145	0.196	9.288	20.087	34.938
2022-06-30 00:15	566100	8.372	-128.088	244.614	20.197	274.369	302.081	0.145	0.196	9.268	20.197	10.727
2022-06-30 00:30	567000	8.351	-126.827	246.05	20.037	272.971	301.559	0.145	0.196	9.259	20.037	10.919
2022-06-30 00:45	567900	8.359	-127.351	245.594	20.176	274.397	302.248	0.145	0.196	9.180	20.176	12.068
2022-06-30 01:00	568800	8.366	-127.747	240.237	20.256	274.677	302.045	0.145	0.196	9.214	20.256	11.61
2022-06-30 01:15	569700	8.368	-127.904	244.199	20.294	275.112	302.283	0.145	0.196	9.196	20.294	9.265
2022-06-30 01:30	570600	8.347	-126.622	245.518	20.126	274.04	302.171	0.145	0.196	9.133	20.126	9.179
2022-06-30 01:45	571500	8.368	-127.878	244.471	20.278	275.221	302.503	0.145	0.197	9.133	20.278	9.401
2022-06-30 02:00	572400	8.375	-128.245	240.854	20.216	274.888	302.531	0.145	0.197	9.103	20.216	15.118
2022-06-30 02:15	573300	8.366	-127.764	245.008	20.242	275.258	302.772	0.146	0.197	9.078	20.242	9.928
2022-06-30 02:30	574200	8.364	-127.623	245.764	20.17	274.849	302.781	0.146	0.197	9.041	20.17	11.771
2022-06-30 02:45	575100	8.367	-127.807	245.883	20.207	275.453	303.211	0.146	0.197	9.019	20.207	9.095
2022-06-30 03:00	576000	8.363	-127.568	243.949	20.167	275.339	303.342	0.146	0.197	8.971	20.167	8.245
2022-06-30 03:15	576900	8.360	-127.337	246.255	20.102	275.055	303.446	0.146	0.197	8.939	20.102	11.643
2022-06-30 03:30	577800	8.362	-127.492	246.362	20.105	275.587	304.013	0.146	0.198	8.887	20.105	8.691
2022-06-30 03:45	578701	8.359	-127.287	246.703	20.077	275.873	304.505	0.146	0.198	8.842	20.077	8.314
2022-06-30 04:00	579601	8.360	-127.296	244.166	20.006	275.73	304.802	0.147	0.198	8.779	20.006	12.952
2022-06-30 04:15	580501	8.334	-125.768	248.856	19.854	274.816	304.768	0.147	0.198	8.704	19.854	9.585
2022-06-30 04:30	581401	8.351	-126.777	248.517	19.928	275.892	305.487	0.147	0.199	8.715	19.928	10.236
2022-06-30 04:45	582301	8.346	-126.474	249.383	19.881	276.036	305.95	0.147	0.199	8.667	19.881	10.223
2022-06-30 05:00	583201	8.338	-126.007	241.718	19.831	276.178	306.431	0.147	0.199	8.617	19.831	8.855
2022-06-30 05:15	584101	8.339	-126.004	248.932	19.78	276.027	306.595	0.147	0.199	8.585	19.78	8.436
2022-06-30 05:30	585001	8.334	-125.713	249.469	19.734	276.114	306.993	0.148	0.200	8.551	19.734	9.333
2022-06-30 05:45	585901	8.334	-125.682	249.821	19.69	276.412	307.607	0.148	0.200	8.516	19.69	8.795
2022-06-30 06:00	586801	8.319	-124.795	246.271	19.578	275.702	307.553	0.148	0.200	8.442	19.578	15.037
2022-06-30 06:15	587701	8.317	-124.664	250.708	19.558	276.246	308.289	0.148	0.200	8.411	19.558	8.853
2022-06-30 06:30	588601	8.296	-123.446	252.248	19.43	275.098	307.848	0.148	0.200	8.331	19.43	10.862
2022-06-30 06:45	589501	8.313	-124.4	251.931	19.457	276.32	309.038	0.149	0.201	8.319	19.457	10.269
2022-06-30 07:00	590401	8.291	-123.158	243.694	19.364	275.936	309.223	0.149	0.201	8.230	19.364	10.401
2022-06-30 07:15	591301	8.280	-122.504	251.967	19.293	275.423	309.121	0.149	0.201	8.183	19.293	9.96
2022-06-30 07:30	592201	8.286	-122.809	251.977	19.272	276.006	309.913	0.149	0.201	8.164	19.272	9.621
2022-06-30 07:45	593101	8.272	-121.963	252.437	19.188	275.289	309.662	0.149	0.201	8.103	19.188	8.571
2022-06-30 08:00	594001	8.279	-122.392	249.387	19.164	275.59	310.164	0.149	0.202	8.050	19.164	12.198
2022-06-30 08:15	594901	8.272	-121.956	252.613	19.145	275.812	310.542	0.149	0.202	8.074	19.145	13.236
2022-06-30 08:30	595801	8.254	-120.893	253.517	19.051	275.092	310.359	0.149	0.202	7.991	19.051	10.354
2022-06-30 08:45	596701	8.271	-121.906	252.52	19.089	276.047	311.178	0.150	0.202	8.024	19.089	9.525
2022-06-30 09:00	597601	8.254	-120.919	250.866	19.029	275.583	311.056	0.150	0.202	7.939	19.029	12.652
2022-06-30 09:15	598501	8.258	-121.15	252.072	19.018	275.829	311.413	0.150	0.202	7.905	19.018	8.577
2022-06-30 09:30	599401	8.238	-119.989	252.182	18.949	275.272	311.244	0.150	0.202	7.842	18.949	8.474
2022-06-30 09:45	600301	8.249	-120.599	251.004	18.968	275.738	311.641	0.150	0.203	7.848	18.968	8.525
2022-06-30 10:00	601201	8.235	-119.796	248.82	18.899	275.289	311.598	0.150	0.203	7.745	18.899	16.519
2022-06-30 10:15	602101	8.220	-118.916	253.166	18.862	275.127	311.665	0.150	0.203	7.686	18.862	10.075
2022-06-30 10:30	603001	8.217	-118.735	253.634	18.835	275.04	311.747	0.150	0.203	7.665	18.835	10.177
2022-06-30 10:45	603901	8.211	-118.38	254.659	18.803	274.827	311.721	0.150	0.203	7.626	18.803	11.696

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-30 11:00	604801	8.200	-117.772	249.192	18.764	274.508	311.623	0.150	0.203	7.563	18.764	10.237
2022-06-30 11:15	605701	8.195	-117.464	254.611	18.743	274.445	311.695	0.150	0.203	7.543	18.743	11.067
2022-06-30 11:30	606601	8.196	-117.521	255.505	18.727	274.267	311.602	0.150	0.203	7.589	18.727	12.166
2022-06-30 11:45	607501	8.196	-117.536	255.963	18.723	274.191	311.545	0.150	0.203	7.580	18.723	11.112
2022-06-30 12:00	608401	8.198	-117.595	253.364	18.711	274.151	311.574	0.150	0.203	7.567	18.711	17.244
2022-06-30 12:15	609301	8.188	-117.056	257.417	18.707	274.112	311.558	0.150	0.203	7.571	18.707	13.924
2022-06-30 12:30	610201	8.186	-116.954	258.326	18.708	274.085	311.52	0.150	0.202	7.567	18.708	15.313
2022-06-30 12:45	611101	8.180	-116.582	259.33	18.706	274.098	311.549	0.150	0.203	7.550	18.706	14.059
2022-06-30 13:00	612001	8.176	-116.386	258.607	18.706	273.987	311.428	0.150	0.202	7.559	18.706	12.87
2022-06-30 13:15	612901	8.171	-116.1	260.426	18.714	274.045	311.44	0.150	0.202	7.559	18.714	19.081
2022-06-30 13:30	613801	8.168	-115.9	260.889	18.711	274.049	311.462	0.150	0.202	7.550	18.711	13.103
2022-06-30 13:45	614701	8.163	-115.659	261.149	18.713	274.007	311.402	0.150	0.202	7.567	18.713	10.894
2022-06-30 14:00	615601	8.164	-115.685	259.523	18.707	273.94	311.368	0.150	0.202	7.576	18.707	22.174
2022-06-30 14:15	616501	8.161	-115.552	262.837	18.708	273.923	311.34	0.150	0.202	7.580	18.708	12.811
2022-06-30 14:30	617401	8.159	-115.433	263.759	18.708	273.927	311.341	0.150	0.202	7.585	18.708	13.847
2022-06-30 14:45	618301	8.160	-115.469	264.329	18.721	274.015	311.356	0.150	0.202	7.596	18.721	12.443
2022-06-30 15:00	619201	8.152	-115.042	261.974	18.718	273.833	311.17	0.150	0.202	7.628	18.718	10.662
2022-06-30 15:15	620101	8.156	-115.252	264.677	18.758	274.192	311.307	0.150	0.202	7.608	18.758	11.258
2022-06-30 15:30	621001	8.156	-115.316	264.959	18.821	274.593	311.336	0.150	0.202	7.647	18.821	11.245
2022-06-30 15:45	621901	8.156	-115.323	264.935	18.866	274.823	311.291	0.150	0.202	7.733	18.866	11.535
2022-06-30 16:00	622801	8.164	-115.747	261.707	18.819	274.579	311.333	0.150	0.202	7.693	18.819	18.762
2022-06-30 16:15	623701	8.158	-115.387	265.938	18.838	274.664	311.303	0.150	0.202	7.746	18.838	13.882
2022-06-30 16:30	624601	8.153	-115.097	266.799	18.798	274.452	311.329	0.150	0.202	7.710	18.798	15.339
2022-06-30 16:45	625501	8.153	-115.137	266.747	18.883	274.955	311.33	0.150	0.202	7.780	18.883	12.177
2022-06-30 17:00	626401	8.153	-115.168	263.726	18.893	274.987	311.296	0.150	0.202	7.778	18.893	15.15
2022-06-30 17:15	627301	8.155	-115.278	266.561	18.932	275.141	311.212	0.150	0.202	7.877	18.932	13.046
2022-06-30 17:30	628201	8.152	-115.12	266.761	18.954	275.338	311.287	0.150	0.202	7.884	18.954	11.101
2022-06-30 17:45	629101	8.147	-114.832	267.328	18.888	274.96	311.3	0.150	0.202	7.864	18.888	10.259
2022-06-30 18:00	630001	8.165	-115.891	263.411	19.025	275.813	311.347	0.150	0.202	8.001	19.025	16.773
2022-06-30 18:15	630901	8.158	-115.461	267.719	18.979	275.56	311.369	0.150	0.202	7.971	18.979	11.36
2022-06-30 18:30	631801	8.169	-116.227	266.875	19.285	277.627	311.644	0.150	0.203	8.094	19.285	11.689
2022-06-30 18:45	632701	8.174	-116.434	266.682	19.183	276.915	311.525	0.150	0.202	8.076	19.183	11.515
2022-06-30 19:00	633601	8.174	-116.472	261.823	19.265	277.338	311.455	0.150	0.202	8.226	19.265	14.146
2022-06-30 19:15	634501	8.180	-116.88	265.64	19.371	278.175	311.688	0.150	0.203	8.187	19.371	13.742
2022-06-30 19:30	635401	8.178	-116.732	265.683	19.345	277.829	311.474	0.150	0.202	8.320	19.345	9.769
2022-06-30 19:45	636301	8.189	-117.431	265.111	19.541	279.224	311.728	0.150	0.203	8.401	19.541	9.438
2022-06-30 20:00	637201	8.181	-116.94	264.589	19.368	278.206	311.742	0.150	0.203	8.267	19.368	17.7
2022-06-30 20:15	638101	8.179	-116.83	266.389	19.366	278.03	311.56	0.150	0.203	8.333	19.366	11.508
2022-06-30 20:30	639001	8.195	-117.817	265.691	19.661	279.819	311.591	0.150	0.203	8.442	19.661	15.129
2022-06-30 20:45	639901	8.179	-116.825	266.773	19.458	278.649	311.636	0.150	0.203	8.426	19.458	11.061
2022-06-30 21:00	640801	8.207	-118.592	260.817	19.891	281.075	311.467	0.150	0.202	8.498	19.891	9.538
2022-06-30 21:15	641701	8.177	-116.746	266.437	19.5	278.946	311.691	0.150	0.203	8.361	19.5	11.232
2022-06-30 21:30	642601	8.189	-117.519	265.478	19.662	279.875	311.648	0.150	0.203	8.442	19.662	9.807
2022-06-30 21:45	643501	8.184	-117.176	265.505	19.609	279.559	311.648	0.150	0.203	8.425	19.609	9.425
2022-06-30 22:00	644401	8.201	-118.225	260.705	19.773	280.871	312.022	0.150	0.203	8.456	19.773	15.478
2022-06-30 22:15	645301	8.191	-117.617	265.152	19.683	280.118	311.781	0.150	0.203	8.516	19.683	12.671
2022-06-30 22:30	646201	8.194	-117.819	265.636	19.798	280.776	311.753	0.150	0.203	8.492	19.798	12.041
2022-06-30 22:45	647101	8.190	-117.588	266.055	19.707	280.224	311.743	0.150	0.203	8.453	19.707	11.562

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-06-30 23:00	648001	8.167	-116.208	265.166	19.566	279.276	311.619	0.150	0.203	8.401	19.566	11.28
2022-06-30 23:15	648901	8.171	-116.425	267.684	19.61	279.58	311.666	0.150	0.203	8.425	19.61	9.474
2022-06-30 23:30	649801	8.173	-116.539	267.927	19.613	279.849	311.948	0.150	0.203	8.340	19.613	9.262
2022-06-30 23:45	650701	8.180	-116.973	266.992	19.69	280.453	312.105	0.150	0.203	8.364	19.69	10.625
2022-07-01 00:00	651601	8.205	-118.473	260.982	19.915	281.525	311.808	0.150	0.203	8.431	19.915	15.54
2022-07-01 00:15	652501	8.198	-118.058	264.687	19.826	281.206	312.041	0.150	0.203	8.542	19.826	11.133
2022-07-01 00:30	653401	8.200	-118.203	264.644	19.84	281.257	312.009	0.150	0.203	8.595	19.84	12.169
2022-07-01 00:45	654301	8.225	-119.717	261.733	20.091	282.234	311.433	0.150	0.202	8.748	20.091	13.008
2022-07-01 01:00	655201	8.246	-121.05	257.224	20.422	285.052	312.364	0.150	0.203	8.808	20.422	9.262
2022-07-01 01:15	656101	8.268	-122.347	257.279	20.564	285.878	312.341	0.150	0.203	8.886	20.564	8.245
2022-07-01 01:30	657001	8.280	-123.005	256.132	20.594	285.595	311.835	0.150	0.203	8.838	20.594	9.753
2022-07-01 01:45	657901	8.313	-125.012	253.088	20.913	287.531	311.878	0.150	0.203	8.998	20.913	10.912
2022-07-01 02:00	658801	8.253	-121.496	253.739	20.639	285.714	311.675	0.150	0.203	8.939	20.639	14.899
2022-07-01 02:15	659701	8.284	-123.348	255.26	20.747	286.523	311.853	0.150	0.203	8.895	20.747	10.054
2022-07-01 02:30	660601	8.285	-123.422	255.064	20.839	286.837	311.602	0.150	0.203	9.065	20.839	10.172
2022-07-01 02:45	661501	8.329	-126.057	252.213	21.126	288.649	311.714	0.150	0.203	9.102	21.126	10.314
2022-07-01 03:00	662401	8.336	-126.483	245.816	21.284	289.226	311.32	0.150	0.202	9.071	21.284	9.982
2022-07-01 03:15	663301	8.324	-125.813	250.499	21.25	289.034	311.333	0.150	0.202	9.098	21.25	9.561
2022-07-01 03:30	664201	8.329	-126.059	250.31	21.219	289.225	311.74	0.150	0.203	9.017	21.219	9.095
2022-07-01 03:45	665101	8.325	-125.868	249.972	21.289	289.328	311.4	0.150	0.202	9.006	21.289	9.466
2022-07-01 04:00	666001	8.316	-125.344	247.94	21.254	289.637	311.956	0.150	0.203	8.992	21.254	12.702
2022-07-01 04:15	666901	8.342	-126.877	249.297	21.345	290.046	311.813	0.150	0.203	8.995	21.345	10.141
2022-07-01 04:30	667801	8.379	-129.087	247.466	21.611	291.667	311.855	0.150	0.203	8.980	21.611	9.598
2022-07-01 04:45	668701	8.342	-126.915	249.604	21.399	290.395	311.841	0.150	0.203	8.897	21.399	10.932
2022-07-01 05:00	669601	8.322	-125.704	243.963	21.308	289.919	311.915	0.150	0.203	8.806	21.308	12.216
2022-07-01 05:15	670501	8.330	-126.231	248.868	21.399	289.822	311.228	0.150	0.202	8.820	21.399	10.317
2022-07-01 05:30	671401	8.356	-127.723	247.993	21.462	291.076	312.174	0.150	0.203	8.750	21.462	9.832
2022-07-01 05:45	672301	8.328	-126.073	249.33	21.345	290.259	312.04	0.150	0.203	8.704	21.345	9.889
2022-07-01 06:00	673201	8.348	-127.254	245.599	21.479	291.192	312.189	0.150	0.203	8.688	21.479	11.377
2022-07-01 06:15	674101	8.341	-126.808	248.992	21.361	290.45	312.143	0.150	0.203	8.657	21.361	10.531
2022-07-01 06:30	675001	8.357	-127.78	248.415	21.463	291.111	312.205	0.150	0.203	8.576	21.463	10.654
2022-07-01 06:45	675901	8.335	-126.486	249.616	21.331	290.466	312.354	0.150	0.203	8.498	21.331	10.512
2022-07-01 07:00	676801	8.299	-124.338	244.638	21.164	289.659	312.56	0.150	0.203	8.422	21.164	9.769
2022-07-01 07:15	677701	8.341	-126.874	248.009	21.417	290.87	312.241	0.150	0.203	8.423	21.417	9.111
2022-07-01 07:30	678601	8.341	-126.796	248.436	21.351	290.713	312.492	0.150	0.203	8.359	21.351	9.499
2022-07-01 07:45	679501	8.332	-126.266	248.427	21.3	290.301	312.374	0.150	0.203	8.292	21.3	8.795
2022-07-01 08:00	680401	8.346	-127.096	245.041	21.331	290.652	312.553	0.150	0.203	8.257	21.331	15.297
2022-07-01 08:15	681301	8.327	-125.961	247.661	21.254	290.121	312.478	0.150	0.203	8.202	21.254	10.566
2022-07-01 08:30	682201	8.329	-126.121	247.974	21.272	290.331	312.591	0.150	0.203	8.166	21.272	10.585
2022-07-01 08:45	683101	8.327	-125.973	248.412	21.248	290.268	312.678	0.150	0.203	8.133	21.248	10.451
2022-07-01 09:00	684001	8.320	-125.554	246.803	21.236	290.344	312.834	0.151	0.203	8.065	21.236	9.459
2022-07-01 09:15	684901	8.294	-124.004	250.596	21.036	288.974	312.647	0.150	0.203	8.029	21.036	9.422
2022-07-01 09:30	685801	8.272	-122.745	251.869	20.961	288.718	312.85	0.151	0.203	7.958	20.961	10.097
2022-07-01 09:45	686701	8.271	-122.676	251.681	20.936	288.567	312.851	0.151	0.203	7.918	20.936	9.943
2022-07-01 10:00	687601	8.284	-123.436	249.438	20.965	289.177	313.322	0.151	0.204	7.884	20.965	12.365
2022-07-01 10:15	688501	8.276	-122.948	252.074	20.931	289.012	313.364	0.151	0.204	7.831	20.931	11.522
2022-07-01 10:30	689401	8.261	-122.089	252.871	20.869	288.706	313.434	0.151	0.204	7.788	20.869	11.155
2022-07-01 10:45	690301	8.241	-120.883	254.029	20.769	288.126	313.458	0.151	0.204	7.705	20.769	11.233

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-01 11:00	691201	8.234	-120.447	251.431	20.722	287.777	313.383	0.151	0.204	7.654	20.722	11.178
2022-07-01 11:15	692101	8.232	-120.332	253.977	20.664	287.705	313.686	0.151	0.204	7.632	20.664	10.835
2022-07-01 11:30	693001	8.226	-119.972	253.875	20.676	287.764	313.672	0.151	0.204	7.566	20.676	10.621
2022-07-01 11:45	693901	8.230	-120.201	253.181	20.666	287.968	313.958	0.151	0.204	7.543	20.666	12.218
2022-07-01 12:00	694801	8.209	-118.997	252.854	20.591	287.648	314.101	0.151	0.204	7.479	20.591	15.731
2022-07-01 12:15	695701	8.213	-119.25	254.542	20.593	287.586	314.02	0.151	0.204	7.436	20.593	12.646
2022-07-01 12:30	696601	8.209	-119.007	254.721	20.639	288.248	314.442	0.151	0.204	7.359	20.639	13.529
2022-07-01 12:45	697501	8.194	-118.146	255.286	20.53	287.411	314.238	0.151	0.204	7.340	20.53	15.731
2022-07-01 13:00	698401	8.193	-118.055	252.194	20.567	287.879	314.507	0.151	0.204	7.269	20.567	14.782
2022-07-01 13:15	699301	8.180	-117.273	255.76	20.427	286.968	314.434	0.151	0.204	7.278	20.427	12.066
2022-07-01 13:30	700201	8.177	-117.135	254.568	20.418	286.862	314.376	0.151	0.204	7.265	20.418	12.372
2022-07-01 13:45	701101	8.183	-117.483	253.45	20.453	287.38	314.714	0.151	0.205	7.247	20.453	14.033
2022-07-01 14:00	702001	8.171	-116.739	251.595	20.393	287.083	314.782	0.151	0.205	7.205	20.393	19.229
2022-07-01 14:15	702901	8.163	-116.293	254.883	20.377	287.098	314.904	0.152	0.205	7.149	20.377	13.134
2022-07-01 14:30	703801	8.164	-116.384	255.377	20.382	287.426	315.232	0.152	0.205	7.135	20.382	11.445
2022-07-01 14:45	704701	8.163	-116.308	254.943	20.395	287.638	315.375	0.152	0.205	7.108	20.395	12.212
2022-07-01 15:00	705601	8.149	-115.476	250.544	20.275	286.762	315.206	0.152	0.205	7.096	20.275	11.737
2022-07-01 15:15	706501	8.141	-115.018	255.853	20.237	286.667	315.358	0.152	0.205	7.091	20.237	10.233
2022-07-01 15:30	707401	8.137	-114.744	256.476	20.218	286.591	315.398	0.152	0.205	7.087	20.218	11.885
2022-07-01 15:45	708301	8.146	-115.299	255.291	20.319	287.543	315.775	0.152	0.205	7.037	20.319	12.138
2022-07-01 16:00	709201	8.146	-115.333	250.32	20.33	287.952	316.15	0.152	0.205	7.053	20.33	14.208
2022-07-01 16:15	710101	8.127	-114.191	253.86	20.202	286.941	315.889	0.152	0.205	7.083	20.202	10.599
2022-07-01 16:30	711001	8.122	-113.912	256.967	20.135	286.625	315.984	0.152	0.205	7.028	20.135	11.32
2022-07-01 16:45	711901	8.123	-113.964	258.557	20.147	286.902	316.214	0.152	0.206	6.994	20.147	11.13
2022-07-01 17:00	712801	8.112	-113.268	255.536	20.072	286.269	316.01	0.152	0.205	7.000	20.072	11.275
2022-07-01 17:15	713701	8.092	-112.112	260.61	19.921	285.118	315.748	0.152	0.205	6.989	19.921	11.434
2022-07-01 17:30	714601	8.105	-112.889	260.5	20.031	286.427	316.465	0.152	0.206	6.998	20.031	11.532
2022-07-01 17:45	715501	8.095	-112.274	261.323	19.946	285.726	316.255	0.152	0.206	6.988	19.946	9.923
2022-07-01 18:00	716401	8.097	-112.374	258.08	19.893	285.698	316.576	0.152	0.206	7.012	19.893	11.657
2022-07-01 18:15	717301	8.097	-112.402	261.287	19.91	285.896	316.683	0.152	0.206	7.000	19.91	45.837
2022-07-01 18:30	718201	8.089	-111.918	261.659	19.851	285.386	316.511	0.152	0.206	6.997	19.851	12.158
2022-07-01 18:45	719101	8.092	-112.062	261.637	19.856	285.787	316.923	0.153	0.206	6.995	19.856	12.478
2022-07-01 19:00	720001	8.085	-111.654	259.196	19.793	285.583	317.12	0.153	0.206	6.976	19.793	11.095
2022-07-01 19:15	720901	8.075	-111.079	261.986	19.754	285.421	317.201	0.153	0.206	6.959	19.754	12.384
2022-07-01 19:30	721801	8.063	-110.393	261.971	19.674	285	317.277	0.153	0.206	6.940	19.674	12.047
2022-07-01 19:45	722701	8.064	-110.395	261.723	19.671	285.306	317.634	0.153	0.206	6.964	19.671	10.198
2022-07-01 20:00	723601	8.072	-110.848	258.197	19.638	285.192	317.735	0.153	0.207	6.979	19.638	12.793
2022-07-01 20:15	724501	8.072	-110.886	263.981	19.674	285.147	317.44	0.153	0.206	7.033	19.674	11.797
2022-07-01 20:30	725401	8.080	-111.32	261.711	19.665	285.464	317.849	0.153	0.207	7.076	19.665	11.419
2022-07-01 20:45	726301	8.070	-110.731	261.492	19.609	285.286	318.033	0.153	0.207	7.090	19.609	11.122
2022-07-01 21:00	727201	8.070	-110.712	255.26	19.599	285.143	317.945	0.153	0.207	7.078	19.599	14.267
2022-07-01 21:15	728101	8.072	-110.815	259.98	19.584	285.245	318.157	0.153	0.207	7.139	19.584	10.004
2022-07-01 21:30	729001	8.085	-111.597	259.003	19.589	285.731	318.667	0.153	0.207	7.226	19.589	10.814
2022-07-01 21:45	729901	8.081	-111.318	258.991	19.548	285.7	318.908	0.153	0.207	7.221	19.548	9.878
2022-07-01 22:00	730801	8.063	-110.271	257.239	19.43	284.978	318.904	0.153	0.207	7.130	19.43	12.2
2022-07-01 22:15	731701	8.066	-110.464	260.143	19.422	285.129	319.128	0.154	0.207	7.232	19.422	12.136
2022-07-01 22:30	732601	8.073	-110.81	260.019	19.392	285.206	319.422	0.154	0.208	7.269	19.392	13.139
2022-07-01 22:45	733501	8.064	-110.288	260.667	19.331	284.994	319.596	0.154	0.208	7.196	19.331	10.677

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-01 23:00	734401	8.071	-110.667	254.99	19.292	284.888	319.75	0.154	0.208	7.184	19.292	9.757
2022-07-01 23:15	735301	8.086	-111.496	258.457	19.285	284.873	319.779	0.154	0.208	7.305	19.285	9.627
2022-07-01 23:30	736201	8.076	-110.924	259.196	19.248	284.844	319.998	0.154	0.208	7.327	19.248	9.717
2022-07-01 23:45	737101	8.070	-110.614	259.411	19.208	280.502	315.393	0.152	0.205	7.315	19.208	9.183
2022-07-02 00:00	738001	8.125	-113.709	252.315	19.25	284.847	319.991	0.154	0.208	7.493	19.25	12.807
2022-07-02 00:15	738901	8.113	-113.032	258.972	19.204	284.754	320.199	0.154	0.208	7.577	19.204	10.812
2022-07-02 00:30	739801	8.132	-114.062	259.437	19.192	284.628	320.146	0.154	0.208	7.626	19.192	10.696
2022-07-02 00:45	740701	8.141	-114.579	260.357	19.175	284.589	320.218	0.154	0.208	7.736	19.175	10.956
2022-07-02 01:00	741601	8.149	-115.051	255.419	19.153	284.496	320.263	0.154	0.208	7.813	19.153	10.504
2022-07-02 01:15	742501	8.168	-116.1	259.492	19.123	284.27	320.211	0.154	0.208	7.904	19.123	9.719
2022-07-02 01:30	743401	8.168	-116.053	259.873	19.095	284.182	320.309	0.154	0.208	7.939	19.095	9.1
2022-07-02 01:45	744301	8.175	-116.439	259.711	19.07	284.009	320.286	0.154	0.208	7.974	19.07	8.889
2022-07-02 02:00	745201	8.193	-117.445	251.931	19.041	283.99	320.467	0.154	0.208	8.042	19.041	14.997
2022-07-02 02:15	746101	8.196	-117.64	259.179	19.019	283.885	320.497	0.154	0.208	8.078	19.019	9.831
2022-07-02 02:30	747001	8.199	-117.788	260.1	18.995	283.756	320.516	0.154	0.208	8.102	18.995	11.607
2022-07-02 02:45	747901	8.207	-118.239	259.799	18.966	283.642	320.593	0.154	0.208	8.147	18.966	10.426
2022-07-02 03:00	748801	8.205	-118.127	257.518	18.946	283.517	320.587	0.154	0.208	8.148	18.946	11.167
2022-07-02 03:15	749701	8.213	-118.551	259.709	18.917	283.38	320.631	0.154	0.208	8.191	18.917	9.443
2022-07-02 03:30	750601	8.221	-118.978	259	18.894	283.278	320.675	0.154	0.208	8.217	18.894	9.926
2022-07-02 03:45	751501	8.223	-119.092	259.07	18.875	283.172	320.692	0.154	0.208	8.249	18.875	9.43
2022-07-02 04:00	752401	8.234	-119.7	254.969	18.848	283.127	320.827	0.154	0.209	8.244	18.848	14.401
2022-07-02 04:15	753301	8.240	-120.041	258.342	18.817	282.957	320.849	0.154	0.209	8.286	18.817	10.193
2022-07-02 04:30	754201	8.245	-120.323	258.881	18.793	282.835	320.874	0.154	0.209	8.298	18.793	12.351
2022-07-02 04:45	755101	8.247	-120.399	258.903	18.763	282.673	320.904	0.154	0.209	8.330	18.763	9.902
2022-07-02 05:00	756001	8.250	-120.547	253.524	18.738	282.447	320.816	0.154	0.209	8.355	18.738	10.144
2022-07-02 05:15	756901	8.255	-120.857	257.801	18.712	282.312	320.847	0.154	0.209	8.363	18.712	11.946
2022-07-02 05:30	757801	8.260	-121.126	257.83	18.689	282.231	320.912	0.154	0.209	8.379	18.689	8.282
2022-07-02 05:45	758701	8.266	-121.429	257.723	18.666	282.069	320.889	0.154	0.209	8.384	18.666	8.673
2022-07-02 06:00	759601	8.278	-122.12	254.649	18.635	281.914	320.931	0.154	0.209	8.392	18.635	12.366
2022-07-02 06:15	760501	8.279	-122.151	256.993	18.61	281.773	320.945	0.154	0.209	8.392	18.61	10.192
2022-07-02 06:30	761401	8.281	-122.232	257.708	18.583	281.593	320.927	0.154	0.209	8.388	18.583	9.763
2022-07-02 06:45	762301	8.280	-122.206	257.611	18.561	281.454	320.922	0.154	0.209	8.392	18.561	9.847
2022-07-02 07:00	763201	8.287	-122.545	252.947	18.537	281.231	320.839	0.154	0.209	8.391	18.537	9.601
2022-07-02 07:15	764101	8.281	-122.197	256.907	18.518	281.141	320.866	0.154	0.209	8.373	18.518	8.167
2022-07-02 07:30	765001	8.286	-122.511	255.911	18.498	281.099	320.957	0.154	0.209	8.378	18.498	9.429
2022-07-02 07:45	765901	8.287	-122.564	255.605	18.478	280.945	320.923	0.154	0.209	8.351	18.478	9.014
2022-07-02 08:00	766801	8.295	-122.964	251.464	18.457	280.875	320.992	0.154	0.209	8.334	18.457	13.757
2022-07-02 08:15	767701	8.286	-122.488	255.925	18.436	280.751	320.998	0.154	0.209	8.325	18.436	11.687
2022-07-02 08:30	768601	8.288	-122.571	256.13	18.419	280.66	321.013	0.154	0.209	8.300	18.419	11.075
2022-07-02 08:45	769501	8.285	-122.406	256.237	18.405	280.602	321.042	0.154	0.209	8.281	18.405	11.364
2022-07-02 09:00	770401	8.284	-122.333	251.447	18.387	280.494	321.047	0.154	0.209	8.265	18.387	9.872
2022-07-02 09:15	771301	8.280	-122.092	255.517	18.364	280.385	321.083	0.154	0.209	8.227	18.364	9.746
2022-07-02 09:30	772201	8.279	-122.046	255.253	18.353	280.295	321.056	0.154	0.209	8.199	18.353	8.978
2022-07-02 09:45	773101	8.274	-121.746	255.646	18.335	280.193	321.062	0.154	0.209	8.171	18.335	10.598
2022-07-02 10:00	774001	8.277	-121.901	252.153	18.314	280.147	321.162	0.155	0.209	8.128	18.314	18.454
2022-07-02 10:15	774901	8.269	-121.458	256.521	18.301	280.071	321.167	0.155	0.209	8.095	18.301	12.312
2022-07-02 10:30	775801	8.263	-121.119	257.634	18.279	279.97	321.201	0.155	0.209	8.064	18.279	11.951
2022-07-02 10:45	776701	8.260	-120.926	258.073	18.266	279.917	321.233	0.155	0.209	8.019	18.266	14.936

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-02 11:00	777601	8.251	-120.411	254.58	18.257	279.825	321.195	0.155	0.209	7.985	18.257	10.917
2022-07-02 11:15	778501	8.244	-120.001	258.521	18.24	279.766	321.245	0.155	0.209	7.940	18.24	10.416
2022-07-02 11:30	779401	8.235	-119.498	259.155	18.22	279.743	321.361	0.155	0.209	7.900	18.22	10.762
2022-07-02 11:45	780301	8.231	-119.259	259.446	18.202	279.659	321.386	0.155	0.209	7.862	18.202	10.412
2022-07-02 12:00	781201	8.229	-119.152	256.392	18.191	279.664	321.473	0.155	0.209	7.831	18.191	15.681
2022-07-02 12:15	782101	8.218	-118.518	259.706	18.181	279.645	321.518	0.155	0.209	7.803	18.181	11.69
2022-07-02 12:30	783001	8.212	-118.198	260.102	18.171	279.686	321.636	0.155	0.209	7.766	18.171	14.134
2022-07-02 12:45	783901	8.206	-117.848	260.76	18.164	279.689	321.69	0.155	0.209	7.737	18.164	13.171
2022-07-02 13:00	784801	8.203	-117.662	256.49	18.159	279.626	321.655	0.155	0.209	7.712	18.159	12.155
2022-07-02 13:15	785701	8.195	-117.223	260.462	18.155	279.665	321.724	0.155	0.209	7.676	18.155	12.359
2022-07-02 13:30	786601	8.189	-116.866	260.638	18.156	279.723	321.789	0.155	0.209	7.668	18.156	11.421
2022-07-02 13:45	787501	8.183	-116.556	260.915	18.151	279.744	321.85	0.155	0.209	7.653	18.151	11.08
2022-07-02 14:00	788401	8.185	-116.644	258.674	18.147	279.853	321.997	0.155	0.209	7.635	18.147	17.173
2022-07-02 14:15	789301	8.176	-116.153	262.455	18.147	279.895	322.05	0.155	0.209	7.634	18.147	12.654
2022-07-02 14:30	790201	8.174	-116.031	262.741	18.14	279.919	322.125	0.155	0.209	7.629	18.14	11.506
2022-07-02 14:45	791101	8.170	-115.817	262.701	18.137	279.913	322.142	0.155	0.209	7.603	18.137	11.693
2022-07-02 15:00	792001	8.165	-115.535	259.196	18.131	279.895	322.163	0.155	0.209	7.598	18.131	11.685
2022-07-02 15:15	792901	8.163	-115.435	263.116	18.124	279.912	322.228	0.155	0.209	7.591	18.124	10.633
2022-07-02 15:30	793801	8.157	-115.097	263.833	18.115	279.891	322.27	0.155	0.209	7.595	18.115	10.737
2022-07-02 15:45	794701	8.154	-114.88	263.993	18.106	279.893	322.334	0.155	0.210	7.597	18.106	11.351
2022-07-02 16:00	795601	8.154	-114.894	259.957	18.102	280.007	322.498	0.155	0.210	7.590	18.102	14.099
2022-07-02 16:15	796501	8.148	-114.574	264.825	18.101	280.005	322.505	0.155	0.210	7.571	18.101	13
2022-07-02 16:30	797401	8.145	-114.362	265.595	18.098	280.012	322.53	0.155	0.210	7.562	18.098	11.37
2022-07-02 16:45	798301	8.145	-114.379	265.55	18.109	280.094	322.551	0.155	0.210	7.566	18.109	16.5
2022-07-02 17:00	799201	8.144	-114.331	263.352	18.12	280.152	322.535	0.155	0.210	7.560	18.12	15.437
2022-07-02 17:15	800101	8.142	-114.248	265.807	18.156	280.496	322.677	0.155	0.210	7.636	18.156	8.5
2022-07-02 17:30	801001	8.137	-113.933	265.304	18.116	280.147	322.556	0.155	0.210	7.530	18.116	12.167
2022-07-02 17:45	801901	8.137	-113.969	265.39	18.136	280.336	322.631	0.155	0.210	7.556	18.136	12.005
2022-07-02 18:00	802801	8.139	-114.045	264.484	18.12	280.42	322.841	0.155	0.210	7.549	18.12	23.731
2022-07-02 18:15	803701	8.137	-113.995	266.554	18.185	280.948	322.994	0.155	0.210	7.668	18.185	10.562
2022-07-02 18:30	804601	8.134	-113.785	267.088	18.162	280.807	322.995	0.155	0.210	7.599	18.162	10.434
2022-07-02 18:45	805501	8.131	-113.652	267.34	18.188	281.087	323.13	0.155	0.210	7.644	18.188	10.045
2022-07-02 19:00	806401	8.131	-113.621	263.089	18.184	281.032	323.092	0.155	0.210	7.654	18.184	9.897
2022-07-02 19:15	807301	8.127	-113.423	266.449	18.186	281.155	323.222	0.156	0.210	7.640	18.186	8.577
2022-07-02 19:30	808201	8.127	-113.437	266.375	18.232	281.617	323.429	0.156	0.210	7.751	18.232	10.589
2022-07-02 19:45	809101	8.124	-113.239	266.229	18.233	281.692	323.506	0.156	0.210	7.772	18.233	9.655
2022-07-02 20:00	810001	8.132	-113.707	258.631	18.23	281.898	323.76	0.156	0.210	7.763	18.23	11.506
2022-07-02 20:15	810901	8.127	-113.442	265.688	18.235	281.88	323.706	0.156	0.210	7.734	18.235	12.469
2022-07-02 20:30	811801	8.120	-113.018	266.62	18.232	282.068	323.944	0.156	0.211	7.783	18.232	11.081
2022-07-02 20:45	812701	8.126	-113.363	266.556	18.253	282.225	323.976	0.156	0.211	7.796	18.253	9.852
2022-07-02 21:00	813601	8.120	-113.037	259.094	18.247	282.261	324.059	0.156	0.211	7.825	18.247	11.433
2022-07-02 21:15	814501	8.117	-112.901	265.645	18.264	282.421	324.121	0.156	0.211	7.833	18.264	10.704
2022-07-02 21:30	815401	8.126	-113.382	265.438	18.301	282.832	324.33	0.156	0.211	7.932	18.301	10.359
2022-07-02 21:45	816301	8.127	-113.471	264.534	18.335	283.116	324.416	0.156	0.211	7.903	18.335	10.212
2022-07-02 22:00	817201	8.130	-113.609	260.619	18.32	283.142	324.551	0.156	0.211	7.901	18.32	12.312
2022-07-02 22:15	818101	8.137	-114.031	263.254	18.351	283.558	324.805	0.156	0.211	7.978	18.351	10.992
2022-07-02 22:30	819001	8.138	-114.107	263.745	18.346	283.459	324.726	0.156	0.211	8.109	18.346	10.095
2022-07-02 22:45	819901	8.131	-113.664	264.417	18.311	283.234	324.72	0.156	0.211	8.027	18.311	10.013

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-02 23:00	820801	8.132	-113.728	259.573	18.303	283.19	324.724	0.156	0.211	8.036	18.303	9.342
2022-07-02 23:15	821701	8.138	-114.064	263.206	18.299	283.27	324.844	0.156	0.211	8.124	18.299	8.885
2022-07-02 23:30	822601	8.137	-114.002	262.944	18.284	283.288	324.978	0.156	0.211	8.158	18.284	8.626
2022-07-02 23:45	823501	8.139	-114.098	262.803	18.263	283.199	325.025	0.156	0.211	8.161	18.263	9.301
2022-07-03 00:00	824401	8.147	-114.57	259.537	18.239	283.166	325.154	0.156	0.211	8.170	18.239	12.377
2022-07-03 00:15	825301	8.141	-114.217	263.292	18.226	283.182	325.267	0.157	0.211	8.206	18.226	9.692
2022-07-03 00:30	826201	8.148	-114.603	263.314	18.198	283.101	325.37	0.157	0.211	8.268	18.198	8.982
2022-07-03 00:45	827101	8.157	-115.08	262.958	18.192	283.137	325.455	0.157	0.212	8.319	18.192	10.596
2022-07-03 01:00	828001	8.160	-115.292	259.258	18.181	283.117	325.514	0.157	0.212	8.379	18.181	9.19
2022-07-03 01:15	828901	8.169	-115.75	261.573	18.167	283.109	325.602	0.157	0.212	8.446	18.167	8.6
2022-07-03 01:30	829801	8.174	-116.029	261.399	18.153	283.063	325.648	0.157	0.212	8.509	18.153	9.047
2022-07-03 01:45	830701	8.182	-116.47	260.624	18.148	283.113	325.744	0.157	0.212	8.542	18.148	8.449
2022-07-03 02:00	831601	8.196	-117.297	255.72	18.129	283.076	325.835	0.157	0.212	8.591	18.129	11.05
2022-07-03 02:15	832501	8.198	-117.362	259.976	18.104	282.966	325.891	0.157	0.212	8.650	18.104	11.494
2022-07-03 02:30	833401	8.210	-118.034	259.909	18.093	282.862	325.851	0.157	0.212	8.700	18.093	9.74
2022-07-03 02:45	834301	8.216	-118.394	259.899	18.072	282.748	325.867	0.157	0.212	8.757	18.072	10.04
2022-07-03 03:00	835201	8.218	-118.454	252.942	18.047	282.502	325.765	0.157	0.212	8.787	18.047	12.007
2022-07-03 03:15	836101	8.218	-118.449	259.074	18.031	282.446	325.812	0.157	0.212	8.817	18.031	13.133
2022-07-03 03:30	837001	8.226	-118.902	258.96	18.012	282.351	325.845	0.157	0.212	8.855	18.012	8.812
2022-07-03 03:45	837901	8.231	-119.212	258.416	17.995	282.28	325.881	0.157	0.212	8.879	17.995	9.815
2022-07-03 04:00	838801	8.248	-120.122	252.861	17.977	282.263	325.992	0.157	0.212	8.910	17.977	11.492
2022-07-03 04:15	839701	8.246	-120.029	258.116	17.964	282.163	325.968	0.157	0.212	8.934	17.964	11.057
2022-07-03 04:30	840601	8.249	-120.211	258.826	17.958	282.168	326.019	0.157	0.212	8.955	17.958	11.988
2022-07-03 04:45	841501	8.259	-120.761	258.435	17.948	282.143	326.063	0.157	0.212	8.987	17.948	10.221
2022-07-03 05:00	842401	8.263	-120.969	252.358	17.937	281.957	325.927	0.157	0.212	9.009	17.937	9.552
2022-07-03 05:15	843301	8.269	-121.312	257.174	17.918	281.873	325.967	0.157	0.212	9.033	17.918	8.195
2022-07-03 05:30	844201	8.272	-121.46	257.353	17.899	281.763	325.978	0.157	0.212	9.057	17.899	8.261
2022-07-03 05:45	845101	8.278	-121.782	256.919	17.878	281.655	326	0.157	0.212	9.068	17.878	8.923
2022-07-03 06:00	846001	8.292	-122.55	252.127	17.849	281.506	326.04	0.157	0.212	9.069	17.849	12.865
2022-07-03 06:15	846901	8.288	-122.321	257.653	17.827	281.349	326.015	0.157	0.212	9.086	17.827	8.491
2022-07-03 06:30	847801	8.289	-122.375	258.071	17.79	281.146	326.043	0.157	0.212	9.090	17.79	8.17
2022-07-03 06:45	848701	8.291	-122.48	258.178	17.766	281.031	326.086	0.157	0.212	9.096	17.766	9.585
2022-07-03 07:00	849601	8.290	-122.404	250.022	17.745	280.855	326.033	0.157	0.212	9.073	17.745	11.876
2022-07-03 07:15	850501	8.298	-122.828	255.923	17.731	280.775	326.045	0.157	0.212	9.069	17.731	8.951
2022-07-03 07:30	851401	8.295	-122.659	256.311	17.701	280.592	326.046	0.157	0.212	9.079	17.701	8.335
2022-07-03 07:45	852301	8.302	-123.038	256.032	17.686	280.454	325.998	0.157	0.212	9.078	17.686	7.885
2022-07-03 08:00	853201	8.316	-123.82	253.381	17.667	280.403	326.076	0.157	0.212	9.070	17.667	14.832
2022-07-03 08:15	854101	8.315	-123.77	256.032	17.655	280.276	326.012	0.157	0.212	9.076	17.655	9.469
2022-07-03 08:30	855001	8.317	-123.858	255.863	17.645	280.235	326.036	0.157	0.212	9.058	17.645	8.596
2022-07-03 08:45	855901	8.320	-124.035	255.818	17.619	280.055	326.018	0.157	0.212	9.043	17.619	9.334
2022-07-03 09:00	856801	8.318	-123.925	252.866	17.602	279.835	325.886	0.157	0.212	9.046	17.602	8.098
2022-07-03 09:15	857701	8.324	-124.216	255.202	17.576	279.678	325.888	0.157	0.212	9.029	17.576	8.227
2022-07-03 09:30	858601	8.326	-124.359	254.22	17.569	279.635	325.889	0.157	0.212	9.005	17.569	7.931
2022-07-03 09:45	859501	8.321	-124.09	253.982	17.564	279.626	325.915	0.157	0.212	8.981	17.564	9.084
2022-07-03 10:00	860401	8.332	-124.657	251.788	17.552	279.651	326.031	0.157	0.212	8.960	17.552	11.071
2022-07-03 10:15	861301	8.326	-124.338	254.106	17.522	279.328	325.871	0.157	0.212	8.923	17.522	9.699
2022-07-03 10:30	862201	8.327	-124.352	255.806	17.486	279.037	325.797	0.157	0.212	8.863	17.486	9.152
2022-07-03 10:45	863101	8.323	-124.121	256.91	17.458	278.84	325.77	0.157	0.212	8.834	17.458	9.915

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-03 11:00	864001	8.321	-123.994	249.457	17.443	278.663	325.671	0.157	0.212	8.804	17.443	9.18
2022-07-03 11:15	864901	8.316	-123.751	256.457	17.433	278.622	325.695	0.157	0.212	8.786	17.433	8.591
2022-07-03 11:30	865801	8.313	-123.568	256.647	17.419	278.55	325.712	0.157	0.212	8.747	17.419	9.784
2022-07-03 11:45	866701	8.315	-123.661	257.277	17.409	278.456	325.677	0.157	0.212	8.718	17.409	9.879
2022-07-03 12:00	867601	8.313	-123.56	252.628	17.392	278.395	325.729	0.157	0.212	8.687	17.392	15.892
2022-07-03 12:15	868501	8.306	-123.119	258.953	17.381	278.315	325.715	0.157	0.212	8.665	17.381	15.423
2022-07-03 12:30	869401	8.305	-123.088	260.226	17.366	278.28	325.785	0.157	0.212	8.633	17.366	11.726
2022-07-03 12:45	870301	8.305	-123.072	261.12	17.365	278.268	325.777	0.157	0.212	8.613	17.365	13.457
2022-07-03 13:00	871201	8.294	-122.492	259.401	17.364	278.193	325.697	0.157	0.212	8.591	17.364	10.839
2022-07-03 13:15	872101	8.294	-122.49	262.756	17.36	278.224	325.762	0.157	0.212	8.560	17.36	10.481
2022-07-03 13:30	873001	8.291	-122.311	263.39	17.357	278.223	325.779	0.157	0.212	8.540	17.357	10.358
2022-07-03 13:45	873901	8.285	-121.965	263.986	17.358	278.268	325.826	0.157	0.212	8.531	17.358	12.768
2022-07-03 14:00	874801	8.291	-122.323	255.746	17.365	278.361	325.881	0.157	0.212	8.510	17.365	15.279
2022-07-03 14:15	875701	8.281	-121.744	265.309	17.37	278.429	325.931	0.157	0.212	8.489	17.37	12.818
2022-07-03 14:30	876601	8.279	-121.622	266.415	17.367	278.457	325.982	0.157	0.212	8.448	17.367	12.834
2022-07-03 14:45	877501	8.275	-121.427	267.188	17.383	278.537	325.958	0.157	0.212	8.456	17.383	11.882
2022-07-03 15:00	878401	8.266	-120.878	263.159	17.375	278.505	325.979	0.157	0.212	8.415	17.375	12.582
2022-07-03 15:15	879301	8.268	-120.993	267.958	17.381	278.562	326.001	0.157	0.212	8.411	17.381	11.145
2022-07-03 15:30	880201	8.266	-120.888	268.28	17.393	277.255	324.389	0.156	0.211	8.414	17.393	10.148
2022-07-03 15:45	881101	8.243	-119.603	269.002	17.37	278.739	326.287	0.157	0.212	8.309	17.37	11.575
2022-07-03 16:00	882001	8.252	-120.13	263.836	17.374	278.795	326.324	0.157	0.212	8.321	17.374	17.709
2022-07-03 16:15	882901	8.233	-119.061	269.753	17.369	278.859	326.44	0.157	0.212	8.278	17.369	13.88
2022-07-03 16:30	883801	8.230	-118.849	270.573	17.363	278.886	326.513	0.157	0.212	8.248	17.363	15.85
2022-07-03 16:45	884701	8.230	-118.887	270.776	17.368	278.856	326.439	0.157	0.212	8.247	17.368	13.722
2022-07-03 17:00	885601	8.226	-118.678	269.51	17.382	278.795	326.264	0.157	0.212	8.270	17.382	13.69
2022-07-03 17:15	886501	8.225	-118.601	272.268	17.382	278.78	326.251	0.157	0.212	8.285	17.382	11.023
2022-07-03 17:30	887401	8.222	-118.43	272.216	17.366	278.804	326.396	0.157	0.212	8.272	17.366	10.138
2022-07-03 17:45	888301	8.230	-118.899	272.364	17.391	278.948	326.382	0.157	0.212	8.283	17.391	10.919
2022-07-03 18:00	889201	8.221	-118.361	267.495	17.362	278.838	326.467	0.157	0.212	8.256	17.362	26.749
2022-07-03 18:15	890101	8.219	-118.229	273.48	17.365	278.823	326.424	0.157	0.212	8.268	17.365	11.898
2022-07-03 18:30	891001	8.222	-118.456	275.089	17.411	279.165	326.487	0.157	0.212	8.319	17.411	11.304
2022-07-03 18:45	891901	8.218	-118.203	275.041	17.374	278.907	326.454	0.157	0.212	8.276	17.374	12.705
2022-07-03 19:00	892801	8.212	-117.855	271.525	17.372	278.852	326.404	0.157	0.212	8.281	17.372	12.012
2022-07-03 19:15	893701	8.217	-118.148	275.118	17.374	278.87	326.412	0.157	0.212	8.257	17.374	13.517
2022-07-03 19:30	894601	8.207	-117.579	275.621	17.374	278.989	326.554	0.157	0.212	8.252	17.374	10.662
2022-07-03 19:45	895501	8.203	-117.39	275.544	17.397	279.297	326.745	0.157	0.212	8.265	17.397	9.78
2022-07-03 20:00	896401	8.213	-117.917	268.554	17.427	279.463	326.719	0.157	0.212	8.269	17.427	15.353
2022-07-03 20:15	897301	8.209	-117.724	274.984	17.479	279.823	326.765	0.157	0.212	8.357	17.479	9.877
2022-07-03 20:30	898201	8.203	-117.388	275.54	17.452	279.729	326.849	0.157	0.212	8.316	17.452	9.566
2022-07-03 20:45	899101	8.205	-117.495	275.857	17.499	280.177	327.027	0.157	0.213	8.376	17.499	9.663
2022-07-03 21:00	900001	8.201	-117.29	272.664	17.521	280.031	326.697	0.157	0.212	8.385	17.521	11.969
2022-07-03 21:15	900901	8.205	-117.545	276.41	17.49	279.792	326.647	0.157	0.212	8.352	17.49	9.562
2022-07-03 21:30	901801	8.211	-117.884	275.935	17.618	281.294	327.467	0.158	0.213	8.406	17.618	14.407
2022-07-03 21:45	902701	8.202	-117.383	276.615	17.551	280.272	326.763	0.157	0.212	8.403	17.551	8.336
2022-07-03 22:00	903601	8.204	-117.526	276.098	17.579	280.487	326.811	0.157	0.212	8.359	17.579	13.584
2022-07-03 22:15	904501	8.198	-117.135	277.657	17.519	280.258	326.979	0.157	0.213	8.358	17.519	9.474
2022-07-03 22:30	905401	8.202	-117.471	276.825	17.775	282.499	327.725	0.158	0.213	8.470	17.775	9.81
2022-07-03 22:45	906301	8.193	-116.868	277.068	17.536	280.356	326.97	0.157	0.213	8.377	17.536	9.848

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-03 23:00	907201	8.194	-116.985	273.844	17.747	282.153	327.523	0.158	0.213	8.396	17.747	10.165
2022-07-03 23:15	908101	8.193	-116.911	276.238	17.692	281.761	327.473	0.158	0.213	8.442	17.692	9.317
2022-07-03 23:30	909001	8.192	-116.849	276.486	17.65	281.192	327.112	0.157	0.213	8.423	17.65	8.693
2022-07-03 23:45	909901	8.185	-116.482	276.734	17.672	281.489	327.302	0.158	0.213	8.427	17.672	9.26
2022-07-04 00:00	910801	8.188	-116.637	271.734	17.643	281.367	327.369	0.158	0.213	8.406	17.643	15.686
2022-07-04 00:15	911701	8.182	-116.313	276.214	17.646	281.466	327.462	0.158	0.213	8.377	17.646	9.773
2022-07-04 00:30	912601	8.182	-116.291	276.493	17.689	282.017	327.793	0.158	0.213	8.333	17.689	10.029
2022-07-04 00:45	913501	8.184	-116.47	274.934	17.76	282.297	327.596	0.158	0.213	8.459	17.76	9.633
2022-07-04 01:00	914401	8.166	-115.387	274.491	17.602	280.985	327.22	0.157	0.213	8.332	17.602	10.137
2022-07-04 01:15	915301	8.173	-115.783	277.137	17.588	281.226	327.606	0.158	0.213	8.261	17.588	30.341
2022-07-04 01:30	916201	8.173	-115.778	277.132	17.571	281.013	327.477	0.158	0.213	8.250	17.571	9.415
2022-07-04 01:45	917101	8.167	-115.402	277.569	17.479	279.995	326.961	0.157	0.213	8.189	17.479	9.427
2022-07-04 02:00	918001	8.171	-115.607	273.565	17.511	280.522	327.345	0.158	0.213	8.207	17.511	14.43
2022-07-04 02:15	918901	8.169	-115.528	277.557	17.519	280.639	327.422	0.158	0.213	8.212	17.519	10.116
2022-07-04 02:30	919801	8.170	-115.573	278.153	17.535	280.83	327.531	0.158	0.213	8.243	17.535	9.953
2022-07-04 02:45	920701	8.175	-115.91	277.743	17.647	281.764	327.804	0.158	0.213	8.279	17.647	9.756
2022-07-04 03:00	921601	8.172	-115.788	273.725	17.731	282.553	328.107	0.158	0.213	8.404	17.731	14.952
2022-07-04 03:15	922501	8.204	-117.631	273.94	17.969	285.971	330.331	0.159	0.215	8.527	17.969	10.505
2022-07-04 03:30	923401	8.190	-116.835	273.656	17.901	283.801	328.319	0.158	0.213	8.564	17.901	8.785
2022-07-04 03:45	924301	8.228	-119.03	270.173	18.089	286.284	329.819	0.159	0.214	8.749	18.089	8.214
2022-07-04 04:00	925201	8.222	-118.744	266.911	18.154	286.818	329.966	0.159	0.214	8.795	18.154	12.405
2022-07-04 04:15	926101	8.207	-117.867	271.21	18.05	285.356	329.035	0.158	0.214	8.763	18.05	10.077
2022-07-04 04:30	927001	8.224	-118.859	270.874	18.168	286.781	329.82	0.159	0.214	8.846	18.168	8.944
2022-07-04 04:45	927901	8.242	-119.934	269.474	18.301	288.163	330.445	0.159	0.215	8.968	18.301	11.48
2022-07-04 05:00	928801	8.246	-120.158	261.342	18.366	288.617	330.495	0.159	0.215	9.023	18.366	10.885
2022-07-04 05:15	929701	8.268	-121.434	265.841	18.451	289.549	330.943	0.159	0.215	9.108	18.451	9.405
2022-07-04 05:30	930601	8.263	-121.195	265.669	18.457	289.706	331.084	0.159	0.215	9.098	18.457	8.143
2022-07-04 05:45	931501	8.260	-121.012	265.412	18.485	289.838	331.03	0.159	0.215	9.146	18.485	8.663
2022-07-04 06:00	932401	8.284	-122.385	261.766	18.558	290.835	331.639	0.160	0.216	9.224	18.558	10.676
2022-07-04 06:15	933301	8.288	-122.635	263.995	18.579	291.136	331.83	0.160	0.216	9.253	18.579	11.846
2022-07-04 06:30	934201	8.288	-122.664	264.131	18.587	291.278	331.936	0.160	0.216	9.254	18.587	8.455
2022-07-04 06:45	935101	8.286	-122.511	263.95	18.575	291.274	332.019	0.160	0.216	9.207	18.575	8.501
2022-07-04 07:00	936001	8.285	-122.495	261.63	18.631	291.742	332.145	0.160	0.216	9.255	18.631	11.053
2022-07-04 07:15	936901	8.294	-122.993	263.106	18.644	291.935	332.273	0.160	0.216	9.258	18.644	8.349
2022-07-04 07:30	937801	8.301	-123.434	262.117	18.673	292.31	332.489	0.160	0.216	9.264	18.673	8.21
2022-07-04 07:45	938701	8.297	-123.172	261.516	18.679	292.345	332.487	0.160	0.216	9.224	18.679	7.438
2022-07-04 08:00	939601	8.297	-123.198	257.014	18.711	292.793	332.763	0.160	0.216	9.214	18.711	11.274
2022-07-04 08:15	940501	8.307	-123.796	260.524	18.739	293.143	332.963	0.160	0.216	9.232	18.739	8.753
2022-07-04 08:30	941401	8.306	-123.699	260.059	18.747	293.192	332.961	0.160	0.216	9.200	18.747	8.227
2022-07-04 08:45	942301	8.315	-124.266	259.463	18.784	293.654	333.214	0.160	0.217	9.198	18.784	8.308
2022-07-04 09:00	943201	8.300	-123.444	254.301	18.815	293.917	333.288	0.161	0.217	9.190	18.815	7.758
2022-07-04 09:15	944101	8.311	-124.056	258.795	18.845	294.269	333.469	0.161	0.217	9.166	18.845	10.226
2022-07-04 09:30	945001	8.308	-123.894	258.981	18.86	294.479	333.602	0.161	0.217	9.144	18.86	7.876
2022-07-04 09:45	945901	8.315	-124.264	258.555	18.883	294.764	333.757	0.161	0.217	9.119	18.883	7.914
2022-07-04 10:00	946801	8.297	-123.25	257.463	18.868	294.566	333.646	0.161	0.217	9.036	18.868	11.64
2022-07-04 10:15	947701	8.274	-121.958	259.413	18.798	293.774	333.247	0.161	0.217	8.937	18.798	8.421
2022-07-04 10:30	948601	8.274	-121.963	259.401	18.788	293.58	333.099	0.160	0.217	8.948	18.788	8.557
2022-07-04 10:45	949501	8.283	-122.43	261.02	18.815	294.225	333.64	0.161	0.217	8.960	18.815	9.885

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-04 11:00	950401	8.262	-121.262	258.009	18.784	293.596	333.147	0.160	0.217	8.944	18.784	9.946
2022-07-04 11:15	951301	8.274	-121.965	261.986	18.809	294.304	333.772	0.161	0.217	8.912	18.809	10.703
2022-07-04 11:30	952201	8.267	-121.539	264.544	18.774	293.633	333.264	0.161	0.217	8.914	18.774	9.289
2022-07-04 11:45	953101	8.288	-122.809	262.062	18.929	295.329	334.064	0.161	0.217	8.950	18.929	8.878
2022-07-04 12:00	954001	8.293	-123.1	257.138	19.019	296.229	334.431	0.161	0.217	8.947	19.019	11.689
2022-07-04 12:15	954901	8.297	-123.308	262.243	19.02	296.06	334.235	0.161	0.217	8.941	19.02	8.885
2022-07-04 12:30	955801	8.315	-124.347	262.596	19.08	297.199	335.086	0.161	0.218	8.902	19.08	9.258
2022-07-04 12:45	956701	8.306	-123.837	265.354	19.061	297.013	335.014	0.161	0.218	8.888	19.061	11.588
2022-07-04 13:00	957601	8.285	-122.688	265.19	19.037	296.446	334.546	0.161	0.217	8.910	19.037	12.362
2022-07-04 13:15	958501	8.314	-124.338	265.819	19.172	298.198	335.549	0.162	0.218	8.863	19.172	9.761
2022-07-04 13:30	959401	8.286	-122.688	268.006	19.017	296.287	334.51	0.161	0.217	8.864	19.017	9.627
2022-07-04 13:45	960301	8.288	-122.843	268.256	19.024	296.538	334.747	0.161	0.218	8.848	19.024	13.155
2022-07-04 14:00	961201	8.294	-123.21	264.959	19.069	297.367	335.36	0.162	0.218	8.789	19.069	12.19
2022-07-04 14:15	962101	8.275	-122.07	270.716	18.938	295.862	334.601	0.161	0.217	8.770	18.938	10.735
2022-07-04 14:30	963001	8.287	-122.793	270.843	19.041	297.166	335.332	0.162	0.218	8.774	19.041	10.468
2022-07-04 14:45	963901	8.278	-122.244	271.372	18.962	296.741	335.421	0.162	0.218	8.650	18.962	11.734
2022-07-04 15:00	964801	8.261	-121.26	271.794	18.905	296.285	335.319	0.162	0.218	8.630	18.905	13.48
2022-07-04 15:15	965701	8.265	-121.472	272.683	18.908	296.672	335.738	0.162	0.218	8.530	18.908	12.007
2022-07-04 15:30	966601	8.257	-121.031	272.667	18.882	295.982	335.148	0.161	0.218	8.574	18.882	11.171
2022-07-04 15:45	967501	8.261	-121.243	271.796	18.915	297.838	337.005	0.162	0.219	8.364	18.915	10.377
2022-07-04 16:00	968401	8.244	-120.251	270.755	18.846	297.148	336.727	0.162	0.219	8.336	18.846	15.332
2022-07-04 16:15	969301	8.231	-119.522	274.6	18.753	295.481	335.516	0.162	0.218	8.335	18.753	11.596
2022-07-04 16:30	970201	8.235	-119.722	274.538	18.769	296.603	336.671	0.162	0.219	8.288	18.769	13.75
2022-07-04 16:45	971101	8.231	-119.488	274.941	18.755	296.689	336.872	0.162	0.219	8.199	18.755	11.742
2022-07-04 17:00	972001	8.230	-119.469	269.739	18.801	297.751	337.739	0.163	0.220	8.174	18.801	14.219
2022-07-04 17:15	972901	8.236	-119.808	273.077	18.79	297.607	337.658	0.163	0.219	8.169	18.79	9.73
2022-07-04 17:30	973801	8.228	-119.305	273.854	18.757	297.145	337.371	0.163	0.219	8.152	18.757	15.5
2022-07-04 17:45	974701	8.231	-119.514	273.62	18.802	297.958	337.964	0.163	0.220	8.134	18.802	9.226
2022-07-04 18:00	975601	8.226	-119.221	271.672	18.818	298.575	338.552	0.163	0.220	8.109	18.818	12.732
2022-07-04 18:15	976501	8.221	-118.942	273.492	18.843	299.049	338.906	0.163	0.220	8.074	18.843	11.314
2022-07-04 18:30	977401	8.217	-118.749	272.729	18.833	299.466	339.453	0.164	0.221	8.032	18.833	11.312
2022-07-04 18:45	978301	8.217	-118.754	273.284	18.859	300.307	340.211	0.164	0.221	8.004	18.859	10.172
2022-07-04 19:00	979201	8.206	-118.103	270.07	18.845	300.011	339.978	0.164	0.221	7.986	18.845	16.027
2022-07-04 19:15	980101	8.216	-118.673	273.47	18.852	299.9	339.805	0.164	0.221	8.000	18.852	9.441
2022-07-04 19:30	981001	8.215	-118.611	274.224	18.858	300.217	340.12	0.164	0.221	7.983	18.858	8.699
2022-07-04 19:45	981901	8.218	-118.804	274.703	18.889	300.247	339.926	0.164	0.221	8.017	18.889	12.345
2022-07-04 20:00	982801	8.206	-118.172	272.004	18.941	301.48	340.937	0.164	0.222	7.998	18.941	14.435
2022-07-04 20:15	983701	8.207	-118.237	274.097	18.935	301.495	340.999	0.164	0.222	7.993	18.935	9.968
2022-07-04 20:30	984601	8.206	-118.167	275.284	18.931	301.264	340.766	0.164	0.221	8.006	18.931	9.319
2022-07-04 20:45	985501	8.203	-117.998	275.349	18.939	301.537	341.016	0.164	0.222	7.986	18.939	9.386
2022-07-04 21:00	986401	8.197	-117.643	271.99	18.909	300.964	340.586	0.164	0.221	7.979	18.909	12.314
2022-07-04 21:15	987301	8.202	-117.96	275.072	18.945	301.412	340.829	0.164	0.222	7.994	18.945	8.414
2022-07-04 21:30	988201	8.205	-118.082	275.926	18.91	300.742	340.33	0.164	0.221	7.979	18.91	9.372
2022-07-04 21:45	989101	8.208	-118.279	275.926	18.952	300.791	340.073	0.164	0.221	8.005	18.952	9.267
2022-07-04 22:00	990001	8.208	-118.279	272.285	18.904	300.46	340.053	0.164	0.221	7.986	18.904	10.735
2022-07-04 22:15	990901	8.198	-117.681	275.48	18.854	299.96	339.858	0.164	0.221	7.931	18.854	10.959
2022-07-04 22:30	991801	8.197	-117.648	275.604	18.863	300.012	339.847	0.164	0.221	7.954	18.863	9.596
2022-07-04 22:45	992701	8.201	-117.884	274.424	18.974	300.953	340.098	0.164	0.221	7.994	18.974	10.633

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-04 23:00	993601	8.188	-117.183	268.17	18.995	301.432	340.481	0.164	0.221	7.977	18.995	10.768
2022-07-04 23:15	994501	8.194	-117.474	273.387	18.9	300.515	340.147	0.164	0.221	7.926	18.9	8.658
2022-07-04 23:30	995401	8.191	-117.311	273.413	18.943	301.177	340.581	0.164	0.221	7.925	18.943	8.994
2022-07-04 23:45	996301	8.183	-116.897	272.929	19.017	302.256	341.251	0.164	0.222	7.937	19.017	10.131
2022-07-05 00:00	997201	8.177	-116.582	270.707	19.093	303.688	342.309	0.165	0.223	8.004	19.093	10.185
2022-07-05 00:15	998101	8.177	-116.568	273.041	19.039	303.011	341.944	0.165	0.222	7.964	19.039	8.935
2022-07-05 00:30	999001	8.172	-116.284	273.749	19.073	303.62	342.377	0.165	0.223	7.988	19.073	8.596
2022-07-05 00:45	999901	8.174	-116.365	274.19	18.943	301.63	341.092	0.164	0.222	7.890	18.943	8.906
2022-07-05 01:00	1000801	8.161	-115.657	269.722	18.982	302.432	341.705	0.165	0.222	7.908	18.982	12.554
2022-07-05 01:15	1001701	8.176	-116.51	271.41	19.048	302.51	341.311	0.165	0.222	7.945	19.048	8.601
2022-07-05 01:30	1002601	8.172	-116.241	271.813	18.979	301.881	341.105	0.164	0.222	7.888	18.979	7.92
2022-07-05 01:45	1003501	8.168	-115.981	272.342	18.91	300.962	340.575	0.164	0.221	7.850	18.91	15.63
2022-07-05 02:00	1004401	8.158	-115.421	270.096	18.878	300.913	340.762	0.164	0.221	7.824	18.878	12.514
2022-07-05 02:15	1005301	8.161	-115.576	273.048	18.884	300.948	340.753	0.164	0.221	7.824	18.884	9.831
2022-07-05 02:30	1006201	8.168	-115.981	272.04	18.843	300.096	340.094	0.164	0.221	7.834	18.843	9.637
2022-07-05 02:45	1007101	8.158	-115.395	272.485	18.845	300.511	340.543	0.164	0.221	7.839	18.845	9.56
2022-07-05 03:00	1008001	8.149	-114.892	266.649	18.826	300.357	340.512	0.164	0.221	7.838	18.826	12.588
2022-07-05 03:15	1008901	8.145	-114.686	271.851	18.795	300.143	340.497	0.164	0.221	7.789	18.795	9.02
2022-07-05 03:30	1009801	8.146	-114.725	271.327	18.753	299.664	340.265	0.164	0.221	7.789	18.753	9.035
2022-07-05 03:45	1010701	8.143	-114.503	271.692	18.707	298.61	339.404	0.164	0.221	7.772	18.707	9.94
2022-07-05 04:00	1011601	8.147	-114.741	269.906	18.686	298.205	339.096	0.163	0.220	7.819	18.686	13.207
2022-07-05 04:15	1012501	8.149	-114.872	270.907	18.704	298.657	339.481	0.164	0.221	7.868	18.704	9.149
2022-07-05 04:30	1013401	8.151	-114.946	271.742	18.72	299.943	340.827	0.164	0.222	7.875	18.72	9.03
2022-07-05 04:45	1014301	8.145	-114.591	272.643	18.646	298.508	339.742	0.164	0.221	7.813	18.646	9.023
2022-07-05 05:00	1015201	8.130	-113.716	270.249	18.558	295.986	337.512	0.163	0.219	7.782	18.558	15.516
2022-07-05 05:15	1016101	8.136	-114.105	271.854	18.656	299.089	340.327	0.164	0.221	7.855	18.656	8.732
2022-07-05 05:30	1017001	8.124	-113.399	272.207	18.525	296.021	337.8	0.163	0.220	7.717	18.525	8.709
2022-07-05 05:45	1017901	8.120	-113.144	271.839	18.525	295.801	337.546	0.163	0.219	7.761	18.525	8.093
2022-07-05 06:00	1018801	8.128	-113.575	268.015	18.521	296.724	338.628	0.163	0.220	7.764	18.521	16.058
2022-07-05 06:15	1019701	8.127	-113.552	270.547	18.5	296.097	338.068	0.163	0.220	7.807	18.5	8.955
2022-07-05 06:30	1020601	8.122	-113.256	271.081	18.466	295.897	338.089	0.163	0.220	7.826	18.466	9.276
2022-07-05 06:45	1021501	8.131	-113.752	270.776	18.507	297.86	340.03	0.164	0.221	7.903	18.507	9.105
2022-07-05 07:00	1022401	8.129	-113.668	266.744	18.527	298.746	340.889	0.164	0.222	7.888	18.527	13.391
2022-07-05 07:15	1023301	8.129	-113.661	269.829	18.493	298.574	340.949	0.164	0.222	7.850	18.493	8.454
2022-07-05 07:30	1024201	8.110	-112.505	270.139	18.389	296.271	339.088	0.163	0.220	7.720	18.389	8.85
2022-07-05 07:45	1025101	8.120	-113.132	268.783	18.446	297.199	339.73	0.164	0.221	7.841	18.446	8.936
2022-07-05 08:00	1026001	8.131	-113.766	262.489	18.503	299.719	342.183	0.165	0.222	7.908	18.503	15.622
2022-07-05 08:15	1026901	8.135	-113.983	267.283	18.544	301.024	343.366	0.165	0.223	7.956	18.544	8.911
2022-07-05 08:30	1027801	8.140	-114.281	267.512	18.56	301.481	343.765	0.166	0.223	8.024	18.56	9.419
2022-07-05 08:45	1028701	8.153	-115.011	267.467	18.58	301.894	344.087	0.166	0.224	8.114	18.58	9.077
2022-07-05 09:00	1029601	8.147	-114.67	261.239	18.565	301.177	343.378	0.165	0.223	8.138	18.565	10.129
2022-07-05 09:15	1030501	8.164	-115.681	265.447	18.598	301.949	344.014	0.166	0.224	8.207	18.598	8.643
2022-07-05 09:30	1031401	8.168	-115.91	264.901	18.623	302.181	344.093	0.166	0.224	8.260	18.623	8.668
2022-07-05 09:45	1032301	8.179	-116.529	264.796	18.668	303.084	344.783	0.166	0.224	8.344	18.668	7.71
2022-07-05 10:00	1033201	8.185	-116.885	261.547	18.684	302.775	344.314	0.166	0.224	8.360	18.684	11.736
2022-07-05 10:15	1034101	8.189	-117.114	263.559	18.711	302.944	344.303	0.166	0.224	8.370	18.711	8.646
2022-07-05 10:30	1035001	8.178	-116.47	264.208	18.682	302.486	344	0.166	0.224	8.303	18.682	8.769
2022-07-05 10:45	1035901	8.186	-116.968	264.417	18.73	303.179	344.424	0.166	0.224	8.395	18.73	8.941

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-05 11:00	1036801	8.183	-116.808	259.845	18.774	303.562	344.53	0.166	0.224	8.406	18.774	9.804
2022-07-05 11:15	1037701	8.192	-117.316	264.651	18.805	303.95	344.739	0.166	0.224	8.433	18.805	8.139
2022-07-05 11:30	1038601	8.197	-117.607	264.754	18.847	304.355	344.887	0.166	0.224	8.464	18.847	8.45
2022-07-05 11:45	1039501	8.199	-117.717	264.029	18.86	304.409	344.848	0.166	0.224	8.451	18.86	7.546
2022-07-05 12:00	1040401	8.203	-117.948	261.535	18.897	304.874	345.104	0.166	0.224	8.460	18.897	9.599
2022-07-05 12:15	1041301	8.206	-118.136	264.022	18.93	305.158	345.179	0.166	0.224	8.478	18.93	8.898
2022-07-05 12:30	1042201	8.193	-117.39	264.594	18.866	304.52	344.928	0.166	0.224	8.426	18.866	9.627
2022-07-05 12:45	1043101	8.193	-117.414	264.971	18.874	304.56	344.922	0.166	0.224	8.433	18.874	9.666
2022-07-05 13:00	1044001	8.189	-117.211	261.647	18.899	304.765	344.966	0.166	0.224	8.435	18.899	11.407
2022-07-05 13:15	1044901	8.194	-117.464	265.779	18.906	304.869	345.03	0.166	0.224	8.450	18.906	8.927
2022-07-05 13:30	1045801	8.197	-117.638	265.972	18.909	304.885	345.023	0.166	0.224	8.465	18.909	8.373
2022-07-05 13:45	1046701	8.196	-117.574	266.372	18.911	304.925	345.055	0.166	0.224	8.457	18.911	8.398
2022-07-05 14:00	1047601	8.194	-117.49	264.105	18.908	304.866	345.009	0.166	0.224	8.436	18.908	9.628
2022-07-05 14:15	1048501	8.199	-117.791	267.1	18.963	305.493	345.309	0.166	0.224	8.459	18.963	9.026
2022-07-05 14:30	1049401	8.197	-117.676	267.14	18.962	305.4	345.212	0.166	0.224	8.443	18.962	9.774
2022-07-05 14:45	1050301	8.196	-117.607	267.462	18.964	305.429	345.23	0.166	0.224	8.442	18.964	10.242
2022-07-05 15:00	1051201	8.176	-116.439	267.204	18.892	304.686	344.928	0.166	0.224	8.395	18.892	11.346
2022-07-05 15:15	1052101	8.185	-116.947	268.313	18.89	304.791	345.058	0.166	0.224	8.385	18.89	8.975
2022-07-05 15:30	1053001	8.210	-118.42	265.64	19.03	306.549	346.004	0.167	0.225	8.375	19.03	9.837
2022-07-05 15:45	1053901	8.208	-118.313	264.434	19.058	306.842	346.125	0.167	0.225	8.378	19.058	10.711
2022-07-05 16:00	1054801	8.198	-117.753	260.7	18.998	305.979	345.598	0.167	0.225	8.373	18.998	12.368
2022-07-05 16:15	1055701	8.199	-117.8	265.362	19.007	306.168	345.742	0.167	0.225	8.360	19.007	11.086
2022-07-05 16:30	1056601	8.191	-117.323	266.163	18.973	305.9	345.698	0.167	0.225	8.337	18.973	10.686
2022-07-05 16:45	1057501	8.195	-117.586	266.408	18.981	306.275	346.059	0.167	0.225	8.321	18.981	11.373
2022-07-05 17:00	1058401	8.183	-116.885	261.447	18.954	306.03	345.981	0.167	0.225	8.272	18.954	14.129
2022-07-05 17:15	1059301	8.194	-117.483	265.223	18.939	306.479	346.602	0.167	0.225	8.211	18.939	10.092
2022-07-05 17:30	1060201	8.221	-119.028	264.138	18.988	307.86	347.8	0.168	0.226	8.175	18.988	10.959
2022-07-05 17:45	1061101	8.211	-118.456	264.482	18.972	307.366	347.36	0.167	0.226	8.173	18.972	9.772
2022-07-05 18:00	1062001	8.194	-117.476	262.975	18.901	306.394	346.795	0.167	0.225	8.144	18.901	12.764
2022-07-05 18:15	1062901	8.200	-117.793	265.624	18.927	306.906	347.176	0.167	0.226	8.131	18.927	10.649
2022-07-05 18:30	1063801	8.185	-116.954	266.325	18.867	305.623	346.172	0.167	0.225	8.124	18.867	11.101
2022-07-05 18:45	1064701	8.183	-116.847	266.711	18.871	305.55	346.064	0.167	0.225	8.202	18.871	10.206
2022-07-05 19:00	1065601	8.180	-116.651	263.433	18.858	306.45	347.18	0.167	0.226	8.057	18.858	13.662
2022-07-05 19:15	1066501	8.178	-116.553	266.487	18.837	306.084	346.923	0.167	0.225	7.977	18.837	9.264
2022-07-05 19:30	1067401	8.160	-115.533	266.513	18.811	306.009	347.032	0.167	0.226	7.945	18.811	10.533
2022-07-05 19:45	1068301	8.180	-116.68	265.979	18.848	308.16	349.188	0.168	0.227	7.880	18.848	8.556
2022-07-05 20:00	1069201	8.159	-115.473	265.9	18.798	306.29	347.445	0.168	0.226	7.894	18.798	12.472
2022-07-05 20:15	1070101	8.148	-114.808	268.397	18.758	304.899	346.174	0.167	0.225	7.901	18.758	9.603
2022-07-05 20:30	1071001	8.159	-115.471	268.363	18.832	308.385	349.567	0.169	0.227	7.784	18.832	9.84
2022-07-05 20:45	1071901	8.151	-115.011	268.847	18.771	306.714	348.134	0.168	0.226	7.761	18.771	10.075
2022-07-05 21:00	1072801	8.143	-114.565	264.549	18.806	308.072	349.41	0.168	0.227	7.781	18.806	10.286
2022-07-05 21:15	1073701	8.139	-114.31	269.324	18.765	307.631	349.217	0.168	0.227	7.660	18.765	8.413
2022-07-05 21:30	1074601	8.137	-114.219	268.73	18.776	308.338	349.94	0.169	0.227	7.641	18.776	8.684
2022-07-05 21:45	1075501	8.132	-113.904	269.071	18.777	308.917	350.585	0.169	0.228	7.600	18.777	9.349
2022-07-05 22:00	1076401	8.136	-114.162	266.303	18.802	309.914	351.531	0.170	0.228	7.569	18.802	12.146
2022-07-05 22:15	1077301	8.129	-113.752	269.992	18.795	309.81	351.461	0.170	0.228	7.561	18.795	9.292
2022-07-05 22:30	1078201	8.135	-114.083	270.735	18.805	309.704	351.264	0.169	0.228	7.569	18.805	9.558
2022-07-05 22:45	1079101	8.134	-114.064	271.258	18.834	310.322	351.747	0.170	0.229	7.602	18.834	9.234

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-05 23:00	1080001	8.131	-113.883	267.331	18.847	309.799	351.059	0.169	0.228	7.581	18.847	13.502
2022-07-05 23:15	1080901	8.117	-113.077	271.603	18.786	309.63	351.33	0.169	0.228	7.516	18.786	9.106
2022-07-05 23:30	1081801	8.116	-113.001	270.967	18.784	309.049	350.687	0.169	0.228	7.533	18.784	9.743
2022-07-05 23:45	1082701	8.120	-113.239	269.932	18.814	308.971	350.371	0.169	0.228	7.558	18.814	9.067
2022-07-06 00:00	1083601	8.117	-113.113	265.836	18.918	311.266	352.176	0.170	0.229	7.588	18.918	11.44
2022-07-06 00:15	1084501	8.107	-112.579	270.318	18.884	310.889	352.007	0.170	0.229	7.529	18.884	8.379
2022-07-06 00:30	1085401	8.114	-112.936	271.522	18.923	311.857	352.805	0.170	0.229	7.537	18.923	8.592
2022-07-06 00:45	1086301	8.108	-112.622	273.244	18.861	310.89	352.182	0.170	0.229	7.510	18.861	8.933
2022-07-06 01:00	1087201	8.089	-111.489	271.732	18.777	308.747	350.397	0.169	0.228	7.481	18.777	9.91
2022-07-06 01:15	1088101	8.100	-112.131	273.129	18.795	310.228	351.936	0.170	0.229	7.450	18.795	9.084
2022-07-06 01:30	1089001	8.106	-112.464	270.576	18.862	310.155	351.346	0.169	0.228	7.545	18.862	8.537
2022-07-06 01:45	1089901	8.091	-111.613	271.141	18.757	308.227	349.959	0.169	0.227	7.417	18.757	8.432
2022-07-06 02:00	1090801	8.088	-111.394	266.289	18.733	308.231	350.145	0.169	0.228	7.415	18.733	11.874
2022-07-06 02:15	1091701	8.106	-112.476	268.599	18.764	309.342	351.169	0.169	0.228	7.486	18.764	8.216
2022-07-06 02:30	1092601	8.096	-111.861	269.148	18.724	308.599	350.632	0.169	0.228	7.402	18.724	8.754
2022-07-06 02:45	1093501	8.082	-111.032	269.946	18.659	307.111	349.434	0.168	0.227	7.427	18.659	9.018
2022-07-06 03:00	1094401	8.083	-111.125	266.625	18.672	308.099	350.455	0.169	0.228	7.518	18.672	13.888
2022-07-06 03:15	1095301	8.099	-112.007	268.211	18.66	308.338	350.822	0.169	0.228	7.530	18.66	7.423
2022-07-06 03:30	1096201	8.090	-111.492	267.886	18.62	308.27	351.049	0.169	0.228	7.508	18.62	7.511
2022-07-06 03:45	1097101	8.080	-110.936	267.86	18.573	306.883	349.825	0.169	0.227	7.539	18.573	10.42
2022-07-06 04:00	1098001	8.063	-109.949	264.954	18.513	305.948	349.215	0.168	0.227	7.512	18.513	11.355
2022-07-06 04:15	1098901	8.089	-111.406	267.45	18.544	308.865	352.312	0.170	0.229	7.536	18.544	7.796
2022-07-06 04:30	1099801	8.094	-111.663	268.127	18.532	310.003	353.699	0.171	0.230	7.591	18.532	8.039
2022-07-06 04:45	1100701	8.096	-111.783	268.535	18.518	310.304	354.154	0.171	0.230	7.600	18.518	9.851
2022-07-06 05:00	1101601	8.087	-111.287	265.035	18.491	310.027	354.047	0.171	0.230	7.600	18.491	9.705
2022-07-06 05:15	1102501	8.093	-111.63	268.106	18.468	309.961	354.147	0.171	0.230	7.610	18.468	9.708
2022-07-06 05:30	1103401	8.074	-110.488	268.223	18.426	307.531	351.69	0.170	0.229	7.597	18.426	8.576
2022-07-06 05:45	1104301	8.088	-111.284	267.128	18.426	309.613	354.071	0.171	0.230	7.604	18.426	9.839
2022-07-06 06:00	1105201	8.091	-111.449	263.697	18.413	309.957	354.564	0.171	0.230	7.630	18.413	21.181
2022-07-06 06:15	1106101	8.092	-111.532	267.536	18.391	309.892	354.663	0.171	0.231	7.656	18.391	8.171
2022-07-06 06:30	1107001	8.091	-111.454	267.634	18.378	309.934	354.812	0.171	0.231	7.682	18.378	8.946
2022-07-06 06:45	1107901	8.092	-111.511	267.231	18.363	309.796	354.772	0.171	0.231	7.690	18.363	10.289
2022-07-06 07:00	1108801	8.092	-111.48	260.972	18.351	309.664	354.71	0.171	0.231	7.719	18.351	16.92
2022-07-06 07:15	1109701	8.098	-111.814	266.325	18.346	309.77	354.873	0.171	0.231	7.743	18.346	8.198
2022-07-06 07:30	1110601	8.098	-111.833	266.339	18.335	309.685	354.858	0.171	0.231	7.739	18.335	8.191
2022-07-06 07:45	1111501	8.097	-111.79	266.16	18.331	309.668	354.873	0.171	0.231	7.753	18.331	8.265
2022-07-06 08:00	1112401	8.105	-112.228	259.392	18.325	309.764	355.027	0.171	0.231	7.774	18.325	21.263
2022-07-06 08:15	1113301	8.103	-112.097	264.479	18.312	309.692	355.044	0.171	0.231	7.796	18.312	9.6
2022-07-06 08:30	1114201	8.108	-112.402	265.044	18.311	309.637	354.992	0.171	0.231	7.813	18.311	8.822
2022-07-06 08:45	1115101	8.107	-112.34	265.34	18.303	309.62	355.035	0.171	0.231	7.841	18.303	9.822
2022-07-06 09:00	1116001	8.108	-112.386	260.009	18.299	309.562	354.995	0.171	0.231	7.875	18.299	10.939
2022-07-06 09:15	1116901	8.119	-113.013	263.502	18.302	309.599	355.016	0.171	0.231	7.935	18.302	13.338
2022-07-06 09:30	1117801	8.128	-113.487	263.271	18.311	309.634	354.99	0.171	0.231	7.972	18.311	8.208
2022-07-06 09:45	1118701	8.135	-113.931	262.52	18.326	309.737	354.988	0.171	0.231	8.045	18.326	8.612
2022-07-06 10:00	1119601	8.140	-114.229	256.023	18.345	309.949	355.085	0.171	0.231	8.075	18.345	16.37
2022-07-06 10:15	1120501	8.149	-114.701	258.478	18.377	310.224	355.149	0.171	0.231	8.114	18.377	9.027
2022-07-06 10:30	1121401	8.151	-114.844	257.298	18.414	310.322	354.976	0.171	0.231	8.150	18.414	9.002
2022-07-06 10:45	1122301	8.152	-114.872	258.824	18.381	309.971	354.831	0.171	0.231	8.129	18.381	9.789

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-06 11:00	1123201	8.147	-114.61	256.848	18.39	309.988	354.781	0.171	0.231	8.104	18.39	10.587
2022-07-06 11:15	1124101	8.156	-115.163	259.816	18.431	310.354	354.878	0.171	0.231	8.173	18.431	9.089
2022-07-06 11:30	1125001	8.173	-116.098	259.632	18.46	310.456	354.77	0.171	0.231	8.264	18.46	8.808
2022-07-06 11:45	1125901	8.164	-115.597	260.123	18.436	310.298	354.777	0.171	0.231	8.213	18.436	8.369
2022-07-06 12:00	1126801	8.179	-116.467	253.643	18.477	310.618	354.825	0.171	0.231	8.273	18.477	12.41
2022-07-06 12:15	1127701	8.185	-116.808	259.542	18.509	310.804	354.793	0.171	0.231	8.299	18.509	10.011
2022-07-06 12:30	1128601	8.197	-117.502	260.138	18.566	311.144	354.738	0.171	0.231	8.374	18.566	9.335
2022-07-06 12:45	1129501	8.208	-118.146	260.941	18.579	311.167	354.662	0.171	0.231	8.410	18.579	8.459
2022-07-06 13:00	1130401	8.201	-117.75	257.115	18.584	311.102	354.548	0.171	0.230	8.422	18.584	14.765
2022-07-06 13:15	1131301	8.212	-118.358	261.8	18.603	311.292	354.623	0.171	0.231	8.446	18.603	7.965
2022-07-06 13:30	1132201	8.199	-117.631	262.405	18.577	311.082	354.585	0.171	0.230	8.402	18.577	8.759
2022-07-06 13:45	1133101	8.195	-117.359	263.17	18.549	310.922	354.62	0.171	0.231	8.389	18.549	8.047
2022-07-06 14:00	1134001	8.201	-117.707	259.983	18.572	311.112	354.659	0.171	0.231	8.398	18.572	11.433
2022-07-06 14:15	1134901	8.206	-118.024	263.101	18.61	311.543	354.85	0.171	0.231	8.408	18.61	10.379
2022-07-06 14:30	1135801	8.213	-118.454	263.643	18.646	312.084	355.194	0.171	0.231	8.429	18.646	8.817
2022-07-06 14:45	1136701	8.215	-118.535	264.014	18.645	311.913	355.002	0.171	0.231	8.441	18.645	9.209
2022-07-06 15:00	1137601	8.204	-117.929	259.604	18.63	311.786	354.973	0.171	0.231	8.414	18.63	12.829
2022-07-06 15:15	1138501	8.222	-118.923	263.182	18.632	311.997	355.198	0.171	0.231	8.414	18.632	8.794
2022-07-06 15:30	1139401	8.214	-118.47	263.695	18.623	311.681	354.908	0.171	0.231	8.400	18.623	8.711
2022-07-06 15:45	1140301	8.183	-116.739	264.644	18.563	311.242	354.875	0.171	0.231	8.323	18.563	7.769
2022-07-06 16:00	1141201	8.190	-117.14	259.265	18.591	312.62	356.224	0.172	0.232	8.327	18.591	12.741
2022-07-06 16:15	1142101	8.180	-116.525	264.415	18.558	311.402	355.089	0.171	0.231	8.281	18.558	9.047
2022-07-06 16:30	1143001	8.171	-116.041	265.638	18.55	312.127	355.981	0.172	0.231	8.264	18.55	9.485
2022-07-06 16:45	1143901	8.170	-115.981	265.333	18.543	313.569	357.679	0.173	0.232	8.219	18.543	9.89
2022-07-06 17:00	1144801	8.168	-115.883	263.468	18.549	318.247	362.974	0.175	0.236	8.161	18.549	24.856
2022-07-06 17:15	1145701	8.163	-115.561	265.643	18.52	315.78	360.386	0.174	0.234	8.134	18.52	10.225
2022-07-06 17:30	1146601	8.184	-116.768	264.904	18.56	325.259	370.878	0.179	0.241	8.106	18.56	11.154
2022-07-06 17:45	1147501	8.185	-116.801	264.026	18.55	329.025	375.251	0.181	0.244	8.022	18.55	8.918
2022-07-06 18:00	1148401	8.169	-115.917	263.135	18.533	329.279	375.682	0.181	0.244	7.989	18.533	10.506
2022-07-06 18:15	1149301	8.171	-116.019	264.656	18.538	331.251	377.888	0.183	0.246	7.982	18.538	9.058
2022-07-06 18:30	1150201	8.163	-115.571	265.323	18.518	335.061	382.402	0.185	0.249	7.916	18.518	9.039
2022-07-06 18:45	1151101	8.129	-113.633	266.21	18.45	328.451	375.417	0.181	0.244	7.793	18.45	9.005
2022-07-06 19:00	1152001	8.109	-112.512	263.237	18.419	327.877	375.013	0.181	0.244	7.733	18.419	12.646
2022-07-06 19:15	1152901	8.126	-113.475	266.055	18.441	330.954	378.35	0.183	0.246	7.784	18.441	8.458
2022-07-06 19:30	1153801	8.131	-113.733	265.75	18.451	342.537	391.505	0.189	0.254	7.730	18.451	8.696
2022-07-06 19:45	1154701	8.104	-112.19	265.884	18.402	336.466	384.981	0.186	0.250	7.593	18.402	8.587
2022-07-06 20:00	1155601	8.109	-112.453	260.66	18.397	340.387	389.513	0.188	0.253	7.605	18.397	12.732
2022-07-06 20:15	1156501	8.096	-111.725	266.229	18.378	337.605	386.49	0.187	0.251	7.585	18.378	9.539
2022-07-06 20:30	1157401	8.146	-114.603	265.66	18.474	357.571	408.487	0.198	0.266	7.721	18.474	9.374
2022-07-06 20:45	1158301	8.157	-115.223	267.421	18.497	359.416	410.386	0.199	0.267	7.829	18.497	9.057
2022-07-06 21:00	1159201	8.161	-115.438	262.963	18.526	360.311	411.148	0.199	0.267	7.866	18.526	10.096
2022-07-06 21:15	1160101	8.128	-113.544	268.232	18.447	356.157	407.109	0.197	0.265	7.697	18.447	8.34
2022-07-06 21:30	1161001	8.115	-112.805	268.859	18.421	356.483	407.718	0.197	0.265	7.604	18.421	8.458
2022-07-06 21:45	1161901	8.131	-113.742	268.339	18.453	361.362	413.004	0.200	0.268	7.675	18.453	9.093
2022-07-06 22:00	1162801	8.108	-112.426	267.517	18.42	354.205	405.116	0.196	0.263	7.640	18.42	12.367
2022-07-06 22:15	1163701	8.110	-112.569	269.148	18.435	351.209	401.563	0.194	0.261	7.592	18.435	8.937
2022-07-06 22:30	1164601	8.122	-113.237	269.441	18.487	357.735	408.563	0.198	0.266	7.726	18.487	12.662
2022-07-06 22:45	1165501	8.120	-113.103	269.953	18.451	358.449	409.698	0.198	0.266	7.682	18.451	8.708

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-06 23:00	1166401	8.103	-112.164	267.214	18.427	358.432	409.89	0.198	0.266	7.615	18.427	9.225
2022-07-06 23:15	1167301	8.122	-113.218	269.703	18.444	358.48	409.796	0.198	0.266	7.623	18.444	8.774
2022-07-06 23:30	1168201	8.115	-112.844	269.14	18.443	355.772	406.708	0.197	0.264	7.609	18.443	8.901
2022-07-06 23:45	1169101	8.121	-113.213	269.493	18.484	366.314	418.386	0.203	0.272	7.696	18.484	9.483
2022-07-07 00:00	1170001	8.105	-112.281	267.953	18.438	357.384	408.593	0.198	0.266	7.620	18.438	12.819
2022-07-07 00:15	1170901	8.112	-112.681	269.844	18.474	363.815	415.621	0.201	0.270	7.619	18.474	10.483
2022-07-07 00:30	1171801	8.122	-113.273	270.442	18.522	366.98	418.8	0.203	0.272	7.721	18.522	8.517
2022-07-07 00:45	1172701	8.116	-112.894	271.277	18.518	365.413	417.049	0.202	0.271	7.677	18.518	8.526
2022-07-07 01:00	1173601	8.113	-112.731	269.365	18.538	372.701	425.175	0.206	0.276	7.735	18.538	11.458
2022-07-07 01:15	1174501	8.113	-112.753	271.029	18.52	368.113	420.112	0.204	0.273	7.601	18.52	8.69
2022-07-07 01:30	1175401	8.108	-112.45	271.217	18.511	370.95	423.426	0.205	0.275	7.682	18.511	10.006
2022-07-07 01:45	1176301	8.105	-112.286	270.352	18.474	370.509	423.265	0.205	0.275	7.608	18.474	8.972
2022-07-07 02:00	1177201	8.105	-112.269	263.688	18.485	369.139	421.602	0.204	0.274	7.585	18.485	11.298
2022-07-07 02:15	1178101	8.120	-113.18	269.293	18.601	382.65	435.929	0.211	0.283	7.763	18.601	8.224
2022-07-07 02:30	1179001	8.116	-112.982	270.218	18.636	385.855	439.249	0.213	0.286	7.800	18.636	9.266
2022-07-07 02:45	1179901	8.117	-113.044	270.673	18.667	390.334	444.048	0.215	0.289	7.839	18.667	8.218
2022-07-07 03:00	1180801	8.110	-112.641	267.224	18.64	389.023	442.812	0.215	0.288	7.841	18.64	17.186
2022-07-07 03:15	1181701	8.123	-113.382	271.126	18.656	391.3	445.253	0.216	0.289	7.880	18.656	8.904
2022-07-07 03:30	1182601	8.110	-112.591	271.517	18.608	386.464	440.208	0.214	0.286	7.802	18.608	7.987
2022-07-07 03:45	1183501	8.109	-112.541	270.883	18.617	388.948	442.949	0.215	0.288	7.798	18.617	7.893
2022-07-07 04:00	1184401	8.111	-112.674	267.331	18.602	387.912	441.914	0.214	0.287	7.770	18.602	10.514
2022-07-07 04:15	1185301	8.107	-112.479	270.135	18.628	390.078	444.132	0.215	0.289	7.785	18.628	11.525
2022-07-07 04:30	1186201	8.106	-112.405	271.601	18.62	388.783	442.731	0.215	0.288	7.775	18.62	8.936
2022-07-07 04:45	1187101	8.103	-112.25	272.109	18.635	390.544	444.59	0.216	0.289	7.798	18.635	9.009
2022-07-07 05:00	1188001	8.104	-112.305	268.749	18.64	390.142	444.086	0.215	0.289	7.810	18.64	11.369
2022-07-07 05:15	1188901	8.111	-112.648	270.538	18.582	381.557	434.865	0.211	0.283	7.702	18.582	7.8
2022-07-07 05:30	1189801	8.093	-111.642	270.156	18.549	380.285	433.725	0.210	0.282	7.635	18.549	16.476
2022-07-07 05:45	1190701	8.114	-112.808	267.536	18.534	382.702	436.629	0.212	0.284	7.599	18.534	7.031
2022-07-07 06:00	1191601	8.103	-112.188	266.015	18.518	379.554	433.181	0.210	0.282	7.640	18.518	11.415
2022-07-07 06:15	1192501	8.101	-112.078	268.823	18.5	380.279	434.187	0.211	0.282	7.641	18.5	8.103
2022-07-07 06:30	1193401	8.104	-112.233	268.47	18.491	381.7	435.894	0.211	0.283	7.671	18.491	8.203
2022-07-07 06:45	1194301	8.095	-111.69	269.403	18.442	380.682	435.192	0.211	0.283	7.578	18.442	8.661
2022-07-07 07:00	1195201	8.077	-110.698	264.119	18.413	376.207	430.353	0.209	0.280	7.648	18.413	10.715
2022-07-07 07:15	1196101	8.088	-111.313	267.972	18.438	382.046	436.795	0.212	0.284	7.627	18.438	7.858
2022-07-07 07:30	1197001	8.053	-109.305	269.25	18.37	374.94	429.305	0.208	0.279	7.498	18.37	8.289
2022-07-07 07:45	1197901	8.087	-111.248	267.271	18.388	382.924	438.276	0.213	0.285	7.439	18.388	7.931
2022-07-07 08:00	1198801	8.097	-111.835	265.948	18.415	387.514	443.264	0.215	0.288	7.664	18.415	9.928
2022-07-07 08:15	1199702	8.110	-112.538	268.044	18.431	391.343	447.49	0.217	0.291	7.750	18.431	8.799
2022-07-07 08:30	1200602	8.075	-110.562	269.303	18.375	386.168	442.111	0.214	0.287	7.584	18.375	8.934
2022-07-07 08:45	1201502	8.127	-113.492	267.705	18.468	398.677	455.507	0.221	0.296	8.040	18.468	8.386
2022-07-07 09:00	1202402	8.129	-113.626	263.719	18.498	400.85	457.689	0.222	0.297	8.152	18.498	17.08
2022-07-07 09:15	1203302	8.150	-114.839	266.842	18.542	403.415	460.181	0.223	0.299	8.261	18.542	8.499
2022-07-07 09:30	1204202	8.148	-114.725	265.862	18.538	401.43	457.95	0.222	0.298	8.249	18.538	8.184
2022-07-07 09:45	1205102	8.141	-114.341	267.033	18.522	402.38	459.199	0.223	0.298	8.218	18.522	8.05
2022-07-07 10:00	1206002	8.148	-114.727	264.849	18.56	403.717	460.342	0.224	0.299	8.329	18.56	9.713
2022-07-07 10:15	1206902	8.154	-115.104	268.056	18.59	403.539	459.839	0.223	0.299	8.402	18.59	9.587
2022-07-07 10:30	1207802	8.168	-115.895	268.485	18.628	403.289	459.168	0.223	0.298	8.454	18.628	9.428
2022-07-07 10:45	1208702	8.193	-117.35	268.516	18.738	401.513	456.057	0.221	0.296	8.653	18.738	8.409

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-07 11:00	1209602	8.200	-117.779	266.949	18.843	399.515	452.76	0.220	0.294	8.768	18.843	12.979
2022-07-07 11:15	1210502	8.217	-118.759	268.177	18.941	396.243	448.102	0.217	0.291	8.417	18.941	10.87
2022-07-07 11:30	1211402	8.222	-119.1	269.083	18.996	395.977	447.267	0.217	0.291	8.856	18.996	8.364
2022-07-07 11:45	1212302	8.228	-119.438	268.127	19.02	395.517	446.517	0.217	0.290	8.892	19.02	7.865
2022-07-07 12:00	1213202	8.148	-114.887	260.61	19.008	395.557	446.677	0.217	0.290	8.425	19.008	126.854
2022-07-07 12:15	1214102	8.227	-119.405	267.653	19.017	393.979	444.806	0.216	0.289	8.904	19.017	10.744
2022-07-07 12:30	1215002	8.233	-119.724	269.2	19.069	392.246	442.357	0.215	0.288	8.905	19.069	30.715
2022-07-07 12:45	1215902	8.239	-120.084	269.617	19.149	389.233	438.2	0.213	0.285	8.914	19.149	8.254
2022-07-07 13:00	1216802	8.229	-119.56	253.667	19.225	387.565	435.613	0.211	0.283	8.901	19.225	10.765
2022-07-07 13:15	1217702	8.234	-119.87	268.175	19.202	388.313	436.67	0.212	0.284	8.648	19.202	8.253
2022-07-07 13:30	1218602	8.236	-119.944	268.425	19.21	387.273	435.428	0.211	0.283	8.880	19.21	7.783
2022-07-07 13:45	1219502	8.228	-119.51	268.645	19.183	388.026	436.527	0.212	0.284	8.873	19.183	7.568
2022-07-07 14:00	1220402	8.236	-119.977	262.057	19.239	385.326	432.966	0.210	0.281	8.868	19.239	10.099
2022-07-07 14:15	1221302	8.237	-120.027	270.831	19.234	386.328	434.138	0.211	0.282	8.896	19.234	10.535
2022-07-07 14:30	1222202	8.228	-119.505	272.092	19.166	390.59	439.571	0.213	0.286	8.920	19.166	7.824
2022-07-07 14:45	1223102	8.231	-119.693	273.077	19.201	391.352	440.095	0.214	0.286	8.968	19.201	7.851
2022-07-07 15:00	1224002	8.214	-118.721	259.449	19.189	393.498	442.626	0.215	0.288	8.943	19.189	10.19
2022-07-07 15:15	1224902	8.236	-120.01	270.266	19.309	389.956	437.51	0.212	0.284	8.977	19.309	7.82
2022-07-07 15:30	1225802	8.238	-120.158	270.554	19.373	389.536	436.443	0.212	0.284	8.975	19.373	7.144
2022-07-07 15:45	1226702	8.233	-119.905	268.916	19.407	390.016	436.667	0.212	0.284	8.964	19.407	7.882
2022-07-07 16:00	1227602	8.222	-119.216	265.619	19.318	391.842	439.545	0.213	0.286	9.007	19.318	13.766
2022-07-07 16:15	1228502	8.230	-119.643	273.086	19.297	391.616	439.489	0.213	0.286	8.994	19.297	8.166
2022-07-07 16:30	1229402	8.224	-119.324	273.971	19.284	392.231	440.305	0.214	0.286	8.983	19.284	8.538
2022-07-07 16:45	1230302	8.241	-120.356	274.226	19.416	388.149	434.491	0.211	0.282	9.030	19.416	8.64
2022-07-07 17:00	1231202	8.249	-120.883	262.319	19.598	377.517	420.952	0.204	0.274	8.963	19.598	23.658
2022-07-07 17:15	1232102	8.250	-120.873	273.651	19.522	382.633	427.346	0.207	0.278	8.982	19.522	8.165
2022-07-07 17:30	1233002	8.251	-121.002	272.509	19.61	381.043	424.773	0.206	0.276	8.999	19.61	8.238
2022-07-07 17:45	1233902	8.259	-121.412	271.339	19.621	372.159	414.775	0.201	0.270	8.886	19.621	8.094
2022-07-07 18:00	1234802	8.242	-120.466	266.16	19.546	378.782	422.831	0.205	0.275	8.945	19.546	17.515
2022-07-07 18:15	1235702	8.264	-121.729	271.227	19.696	366.248	407.531	0.197	0.265	8.819	19.696	9.313
2022-07-07 18:30	1236602	8.268	-121.968	273.802	19.715	366.112	407.213	0.197	0.265	8.863	19.715	8.998
2022-07-07 18:45	1237502	8.259	-121.439	273.434	19.638	365.123	406.783	0.197	0.264	8.559	19.638	9.897
2022-07-07 19:00	1238402	8.221	-119.231	269.894	19.489	382.116	427.066	0.207	0.278	8.931	19.489	10.834
2022-07-07 19:15	1239302	8.225	-119.443	277.695	19.416	388.753	435.166	0.211	0.283	8.984	19.416	8.388
2022-07-07 19:30	1240202	8.239	-120.256	274.734	19.551	371.756	414.941	0.201	0.270	8.716	19.551	8.598
2022-07-07 19:45	1241102	8.229	-119.658	275.127	19.465	385.921	431.547	0.209	0.281	8.895	19.465	8.412
2022-07-07 20:00	1242002	8.224	-119.364	265.466	19.447	387.853	433.87	0.210	0.282	8.965	19.447	18.23
2022-07-07 20:15	1242902	8.228	-119.586	276.238	19.445	389.454	435.676	0.211	0.283	9.047	19.445	8.764
2022-07-07 20:30	1243802	8.225	-119.476	277.921	19.473	383.676	428.96	0.208	0.279	8.933	19.473	8.728
2022-07-07 20:45	1244702	8.223	-119.352	277.929	19.49	385.271	430.588	0.209	0.280	8.796	19.49	8.006
2022-07-07 21:00	1245602	8.218	-119.085	270.225	19.51	382.075	426.835	0.207	0.277	8.891	19.51	17.174
2022-07-07 21:15	1246502	8.224	-119.393	277.864	19.498	380.881	425.605	0.206	0.277	8.779	19.498	8.718
2022-07-07 21:30	1247402	8.214	-118.856	278.289	19.468	380.48	425.428	0.206	0.277	8.776	19.468	8.314
2022-07-07 21:45	1248302	8.216	-118.911	277.807	19.461	380.327	425.321	0.206	0.276	8.700	19.461	7.506
2022-07-07 22:00	1249202	8.209	-118.563	274.855	19.488	378.37	422.894	0.205	0.275	8.675	19.488	10.614
2022-07-07 22:15	1250102	8.213	-118.749	276.753	19.464	374.659	418.955	0.203	0.272	8.528	19.464	8.739
2022-07-07 22:30	1251002	8.231	-119.82	275.866	19.587	359.971	401.475	0.194	0.261	8.432	19.587	7.899
2022-07-07 22:45	1251902	8.234	-120.006	275.089	19.608	354.958	395.711	0.191	0.257	8.401	19.608	7.863

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-07 23:00	1252802	8.201	-118.101	268.354	19.468	364.825	407.927	0.198	0.265	8.406	19.468	8.338
2022-07-07 23:15	1253702	8.210	-118.642	275.213	19.501	366.375	409.372	0.198	0.266	8.415	19.501	8.076
2022-07-07 23:30	1254602	8.211	-118.678	274.638	19.476	356.823	398.911	0.193	0.259	8.326	19.476	7.63
2022-07-07 23:45	1255502	8.209	-118.539	274.343	19.489	361.739	404.299	0.196	0.263	8.273	19.489	7.377
2022-07-08 00:00	1256402	8.211	-118.642	269.498	19.462	352.376	394.061	0.191	0.256	8.204	19.462	8.849
2022-07-08 00:15	1257302	8.206	-118.349	274.133	19.453	355.59	397.727	0.192	0.259	8.192	19.453	8.147
2022-07-08 00:30	1258202	8.201	-118.093	274.944	19.432	363.283	406.52	0.197	0.264	8.159	19.432	8.432
2022-07-08 00:45	1259102	8.200	-118.005	275.418	19.406	362.854	406.264	0.197	0.264	7.844	19.406	9.105
2022-07-08 01:00	1260002	8.181	-116.954	265.958	19.381	366.496	410.555	0.199	0.267	8.186	19.381	15.334
2022-07-08 01:15	1260902	8.196	-117.791	274.066	19.388	362.7	406.248	0.197	0.264	8.205	19.388	7.731
2022-07-08 01:30	1261802	8.196	-117.779	271.825	19.383	357.164	400.089	0.194	0.260	8.170	19.383	8.317
2022-07-08 01:45	1262702	8.189	-117.4	270.335	19.381	359.971	403.246	0.195	0.262	8.112	19.381	8.648
2022-07-08 02:00	1263602	8.183	-117.044	265.903	19.364	360.474	403.96	0.196	0.263	8.096	19.364	15.667
2022-07-08 02:15	1264502	8.202	-118.139	270.561	19.432	365.853	409.391	0.198	0.266	8.173	19.432	7.867
2022-07-08 02:30	1265402	8.200	-118.005	272.295	19.45	359.261	401.859	0.195	0.261	8.244	19.45	7.909
2022-07-08 02:45	1266302	8.201	-118.053	271.208	19.41	356.551	399.17	0.193	0.259	8.172	19.41	7.356
2022-07-08 03:00	1267202	8.168	-116.148	263.7	19.315	374.375	419.975	0.204	0.273	8.270	19.315	8.302
2022-07-08 03:15	1268102	8.193	-117.579	269.596	19.316	361.509	405.534	0.196	0.264	8.283	19.316	6.897
2022-07-08 03:30	1269002	8.180	-116.832	269.326	19.276	362.807	407.344	0.197	0.265	8.256	19.276	7.509
2022-07-08 03:45	1269902	8.174	-116.475	269.407	19.234	368.599	414.216	0.201	0.269	8.198	19.234	7.684
2022-07-08 04:00	1270802	8.175	-116.515	265.252	19.174	359.702	404.743	0.196	0.263	8.268	19.174	8.8
2022-07-08 04:15	1271702	8.172	-116.351	270.797	19.155	380.307	428.097	0.208	0.278	8.229	19.155	7.454
2022-07-08 04:30	1272602	8.166	-115.955	272.03	19.103	368.168	414.898	0.201	0.270	8.233	19.103	7.623
2022-07-08 04:45	1273502	8.172	-116.301	272.688	19.092	366.844	413.504	0.200	0.269	8.369	19.092	7.566
2022-07-08 05:00	1274402	8.160	-115.621	266.148	19.056	364.821	411.544	0.199	0.268	8.165	19.056	10.628
2022-07-08 05:15	1275302	8.160	-115.583	272.385	19.012	371.059	418.983	0.203	0.272	8.178	19.012	8.143
2022-07-08 05:30	1276202	8.167	-115.96	270.721	18.972	357.411	403.92	0.196	0.263	8.103	18.972	9.319
2022-07-08 05:45	1277102	8.161	-115.635	270.7	18.921	359.059	406.227	0.197	0.264	8.096	18.921	7.427
2022-07-08 06:00	1278002	8.138	-114.269	266.432	18.865	377.786	427.931	0.207	0.278	8.041	18.865	9.535
2022-07-08 06:15	1278902	8.151	-115.042	270.79	18.842	358.475	406.259	0.197	0.264	7.970	18.842	8.005
2022-07-08 06:30	1279802	8.139	-114.357	272.261	18.813	364.098	412.886	0.200	0.268	7.958	18.813	7.811
2022-07-08 06:45	1280702	8.145	-114.677	271.193	18.789	354.963	402.738	0.195	0.262	7.934	18.789	10.303
2022-07-08 07:00	1281602	8.125	-113.497	265.819	18.76	361.139	410.001	0.199	0.267	7.897	18.76	8.45
2022-07-08 07:15	1282502	8.145	-114.644	270.783	18.738	351.683	399.462	0.193	0.260	7.888	18.738	6.887
2022-07-08 07:30	1283402	8.123	-113.406	271.703	18.723	356.877	405.496	0.196	0.264	7.865	18.723	10.647
2022-07-08 07:45	1284302	8.126	-113.542	271.713	18.697	354.892	403.464	0.195	0.262	7.835	18.697	7.713
2022-07-08 08:00	1285202	8.131	-113.845	260.681	18.681	353.423	401.932	0.194	0.261	7.842	18.681	9.412
2022-07-08 08:15	1286102	8.133	-113.912	268.039	18.659	350.301	398.575	0.193	0.259	7.831	18.659	7.393
2022-07-08 08:30	1287002	8.139	-114.286	269.088	18.647	343.422	390.847	0.189	0.254	7.812	18.647	7.376
2022-07-08 08:45	1287902	8.141	-114.36	269.453	18.646	343.446	390.883	0.189	0.254	7.819	18.646	8.089
2022-07-08 09:00	1288802	8.128	-113.645	256.03	18.634	342.805	390.258	0.189	0.254	7.792	18.634	10.308
2022-07-08 09:15	1289702	8.137	-114.126	266.718	18.623	342.137	389.589	0.188	0.253	7.771	18.623	7.92
2022-07-08 09:30	1290602	8.136	-114.071	266.539	18.613	340.766	388.112	0.188	0.252	7.820	18.613	7.44
2022-07-08 09:45	1291502	8.137	-114.114	265.91	18.6	338.777	385.958	0.187	0.251	7.780	18.6	7.443
2022-07-08 10:00	1292402	8.076	-110.672	265.691	18.596	370.662	422.316	0.205	0.275	7.594	18.596	10.954
2022-07-08 10:15	1293302	8.044	-108.864	272.357	18.57	380.482	433.749	0.210	0.282	7.512	18.57	8.21
2022-07-08 10:30	1294202	8.020	-107.498	274.679	18.52	389.321	444.316	0.216	0.289	7.374	18.52	7.971
2022-07-08 10:45	1295102	8.001	-106.425	276.915	18.487	390.099	445.522	0.216	0.290	7.196	18.487	8.033

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-08 11:00	1296002	7.984	-105.436	267.848	18.469	387.696	442.948	0.215	0.288	7.111	18.469	9.932
2022-07-08 11:15	1296902	7.985	-105.536	274.717	18.448	382.776	437.527	0.212	0.284	7.074	18.448	8.415
2022-07-08 11:30	1297802	8.048	-109.096	270.404	18.523	360.18	411.026	0.199	0.267	7.232	18.523	8.245
2022-07-08 11:45	1298702	8.054	-109.451	267.317	18.574	356.509	406.383	0.197	0.264	7.414	18.574	8.627
2022-07-08 12:00	1299602	8.071	-110.393	255.696	18.617	352.562	401.516	0.194	0.261	7.447	18.617	10.185
2022-07-08 12:15	1300502	8.089	-111.463	264.007	18.68	348.515	396.357	0.192	0.258	7.563	18.68	8.77
2022-07-08 12:30	1301402	8.064	-110.013	266.041	18.661	353.69	402.413	0.195	0.262	7.604	18.661	8.757
2022-07-08 12:45	1302302	8.097	-111.954	265.624	18.734	345.038	391.945	0.190	0.255	7.593	18.734	9.358
2022-07-08 13:00	1303202	8.084	-111.196	258.359	18.742	345.01	391.849	0.189	0.255	7.560	18.742	9.382
2022-07-08 13:15	1304102	8.059	-109.794	266.449	18.716	349.769	397.473	0.192	0.258	7.532	18.716	9.52
2022-07-08 13:30	1305002	8.083	-111.16	263.955	18.799	344.422	390.694	0.189	0.254	7.623	18.799	13.854
2022-07-08 13:45	1305902	8.065	-110.137	266.918	18.72	344.112	391.012	0.189	0.254	7.545	18.72	9.511
2022-07-08 14:00	1306802	8.107	-112.567	261.43	18.92	340.261	384.966	0.186	0.250	7.623	18.92	11.542
2022-07-08 14:15	1307702	8.080	-111.022	266.582	18.855	342.842	388.429	0.188	0.252	7.626	18.855	11.302
2022-07-08 14:30	1308602	8.076	-110.769	267.922	18.824	341.257	386.892	0.187	0.251	7.655	18.824	9.824
2022-07-08 14:45	1309502	8.074	-110.714	268.549	18.897	342.888	388.128	0.188	0.252	7.595	18.897	9.698
2022-07-08 15:00	1310402	8.116	-113.144	257.189	19.145	338.418	381.026	0.184	0.248	7.887	19.145	12.332
2022-07-08 15:15	1311302	8.102	-112.3	267.314	19.022	338.296	381.902	0.185	0.248	7.808	19.022	10.246
2022-07-08 15:30	1312202	8.106	-112.553	266.268	19.103	338.472	381.43	0.184	0.248	7.814	19.103	9.711
2022-07-08 15:45	1313102	8.143	-114.758	265.204	19.276	335.779	376.992	0.182	0.245	8.014	19.276	9.261
2022-07-08 16:00	1314002	8.134	-114.172	264.744	19.198	335.258	377.04	0.182	0.245	8.056	19.198	12.85
2022-07-08 16:15	1314902	8.135	-114.25	268.742	19.255	336.588	378.071	0.183	0.246	8.042	19.255	10.716
2022-07-08 16:30	1315802	8.172	-116.448	268.13	19.492	335.296	374.719	0.181	0.244	8.218	19.492	10.346
2022-07-08 16:45	1316702	8.166	-116.081	271.47	19.383	333.639	373.733	0.181	0.243	8.233	19.383	10.918
2022-07-08 17:00	1317602	8.142	-114.717	265.495	19.358	334.245	374.617	0.181	0.244	8.221	19.358	10.828
2022-07-08 17:15	1318502	8.161	-115.848	272.502	19.477	335.768	375.363	0.181	0.244	8.246	19.477	9.773
2022-07-08 17:30	1319402	8.159	-115.697	272.698	19.419	335.292	375.297	0.181	0.244	8.227	19.419	9.589
2022-07-08 17:45	1320302	8.159	-115.716	272.581	19.437	335.545	375.433	0.181	0.244	8.238	19.437	9.676
2022-07-08 18:00	1321202	8.201	-118.275	265.879	19.86	336.491	373.122	0.180	0.243	8.408	19.86	17.057
2022-07-08 18:15	1322102	8.198	-118.003	271.157	19.715	335.556	373.231	0.180	0.243	8.393	19.715	10.712
2022-07-08 18:30	1323002	8.196	-117.95	270.895	19.817	336.256	373.205	0.180	0.243	8.437	19.817	10.135
2022-07-08 18:45	1323902	8.196	-117.929	272.118	19.818	336.11	373.028	0.180	0.242	8.464	19.818	10.107
2022-07-08 19:00	1324802	8.191	-117.736	265.922	19.986	336.982	372.67	0.180	0.242	8.480	19.986	10.395
2022-07-08 19:15	1325702	8.207	-118.63	270.614	19.972	336.853	372.638	0.180	0.242	8.454	19.972	11.696
2022-07-08 19:30	1326602	8.205	-118.544	269.417	20.038	337.102	372.392	0.180	0.242	8.434	20.038	10.21
2022-07-08 19:45	1327502	8.220	-119.498	265.719	20.304	338.455	371.806	0.180	0.242	8.472	20.304	10.002
2022-07-08 20:00	1328402	8.225	-119.877	263.449	20.463	339.178	371.355	0.179	0.241	8.495	20.463	10.764
2022-07-08 20:15	1329302	8.229	-120.087	264.684	20.463	338.843	370.993	0.179	0.241	8.475	20.463	9.842
2022-07-08 20:30	1330202	8.238	-120.585	264.611	20.456	338.045	370.173	0.179	0.241	8.476	20.456	8.896
2022-07-08 20:45	1331102	8.227	-119.91	266.735	20.383	337.798	370.471	0.179	0.241	8.465	20.383	14.206
2022-07-08 21:00	1332002	8.210	-119.004	260.901	20.453	338.181	370.348	0.179	0.241	8.461	20.453	9.684
2022-07-08 21:15	1332902	8.223	-119.774	264.31	20.479	338.27	370.245	0.179	0.241	8.338	20.479	10.146
2022-07-08 21:30	1333802	8.222	-119.696	263.478	20.535	338.965	370.568	0.179	0.241	8.407	20.535	8.545
2022-07-08 21:45	1334702	8.218	-119.51	261.68	20.531	338.801	370.42	0.179	0.241	8.395	20.531	8.67
2022-07-08 22:00	1335602	8.219	-119.481	261.091	20.423	337.997	370.376	0.179	0.241	8.373	20.423	10.983
2022-07-08 22:15	1336502	8.214	-119.162	265.977	20.322	336.958	370.021	0.179	0.241	8.341	20.322	9.412
2022-07-08 22:30	1337402	8.217	-119.393	265.331	20.459	338.517	370.667	0.179	0.241	8.364	20.459	8.939
2022-07-08 22:45	1338302	8.223	-119.767	262.377	20.511	338.803	370.572	0.179	0.241	8.324	20.511	12.749

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-08 23:00	1339202	8.205	-118.701	254.003	20.442	338.374	370.641	0.179	0.241	8.345	20.442	9.71
2022-07-08 23:15	1340102	8.202	-118.458	266.308	20.205	336.586	370.519	0.179	0.241	8.291	20.205	8.001
2022-07-08 23:30	1341002	8.195	-118.024	267.004	20.168	336.476	370.688	0.179	0.241	8.287	20.168	8.937
2022-07-08 23:45	1341902	8.205	-118.628	266.38	20.212	336.743	370.636	0.179	0.241	8.246	20.212	8.686
2022-07-09 00:00	1342802	8.204	-118.582	262.775	20.214	336.903	370.802	0.179	0.241	8.266	20.214	11.474
2022-07-09 00:15	1343702	8.208	-118.816	267.514	20.206	336.773	370.718	0.179	0.241	8.267	20.206	8.567
2022-07-09 00:30	1344602	8.222	-119.617	267.674	20.299	337.493	370.784	0.179	0.241	8.268	20.299	10.361
2022-07-09 00:45	1345502	8.229	-120.013	267.441	20.345	337.788	370.749	0.179	0.241	8.276	20.345	9.238
2022-07-09 01:00	1346402	8.214	-119.181	260.224	20.351	337.691	370.602	0.179	0.241	8.261	20.351	8.374
2022-07-09 01:15	1347302	8.220	-119.498	265.362	20.303	337.279	370.521	0.179	0.241	8.219	20.303	8.203
2022-07-09 01:30	1348202	8.240	-120.671	263.552	20.39	337.868	370.494	0.179	0.241	8.253	20.39	8.036
2022-07-09 01:45	1349102	8.228	-119.967	263.178	20.303	337.319	370.564	0.179	0.241	8.181	20.303	7.28
2022-07-09 02:00	1350002	8.224	-119.731	258.028	20.279	337.15	370.566	0.179	0.241	8.225	20.279	10.937
2022-07-09 02:15	1350902	8.226	-119.801	264.365	20.24	336.969	370.666	0.179	0.241	8.197	20.24	7.72
2022-07-09 02:30	1351802	8.218	-119.362	265.073	20.175	336.488	370.648	0.179	0.241	8.205	20.175	7.916
2022-07-09 02:45	1352702	8.205	-118.592	266.992	20.097	336.101	370.831	0.179	0.241	8.150	20.097	7.723
2022-07-09 03:00	1353602	8.201	-118.361	260.1	20.066	335.871	370.818	0.179	0.241	8.134	20.066	9.166
2022-07-09 03:15	1354502	8.209	-118.761	267.109	20.031	335.674	370.875	0.179	0.241	8.106	20.031	7.489
2022-07-09 03:30	1355402	8.200	-118.251	268.535	19.959	335.447	371.183	0.179	0.241	8.078	19.959	7.57
2022-07-09 03:45	1356302	8.217	-119.202	266.818	19.994	335.481	370.946	0.179	0.241	8.102	19.994	8.644
2022-07-09 04:00	1357202	8.212	-118.89	261.203	19.964	335.398	371.093	0.179	0.241	8.082	19.964	11.482
2022-07-09 04:15	1358102	8.207	-118.604	268.087	19.89	335.011	371.245	0.179	0.241	8.061	19.89	8.561
2022-07-09 04:30	1359002	8.185	-117.333	270.383	19.801	334.73	371.635	0.180	0.242	8.070	19.801	7.755
2022-07-09 04:45	1359902	8.188	-117.445	270.738	19.754	334.64	371.905	0.180	0.242	8.034	19.754	7.816
2022-07-09 05:00	1360802	8.181	-117.071	265.421	19.747	334.434	371.733	0.180	0.242	7.992	19.747	11.297
2022-07-09 05:15	1361702	8.196	-117.912	269.241	19.708	334.179	371.754	0.180	0.242	7.969	19.708	7.916
2022-07-09 05:30	1362602	8.171	-116.446	271.472	19.624	334.365	372.626	0.180	0.242	7.939	19.624	7.526
2022-07-09 05:45	1363502	8.174	-116.611	271.093	19.595	334.171	372.641	0.180	0.242	7.969	19.595	8.373
2022-07-09 06:00	1364402	8.154	-115.461	270.242	19.516	334.359	373.482	0.180	0.243	7.878	19.516	15.344
2022-07-09 06:15	1365302	8.165	-116.05	272.662	19.499	334.107	373.335	0.180	0.243	7.888	19.499	7.609
2022-07-09 06:30	1366202	8.142	-114.737	275.38	19.431	334.559	374.38	0.181	0.243	7.846	19.431	10.933
2022-07-09 06:45	1367102	8.146	-114.963	274.786	19.4	334.399	374.447	0.181	0.243	7.804	19.4	7.873
2022-07-09 07:00	1368002	8.133	-114.207	264.303	19.348	334.73	375.234	0.181	0.244	7.806	19.348	9.69
2022-07-09 07:15	1368902	8.130	-114.028	274.741	19.295	334.902	375.855	0.182	0.244	7.718	19.295	8.289
2022-07-09 07:30	1369802	8.109	-112.834	273.628	19.27	335.827	377.097	0.182	0.245	7.713	19.27	8.333
2022-07-09 07:45	1370702	8.124	-113.63	272.979	19.237	335.394	376.882	0.182	0.245	7.614	19.237	18.485
2022-07-09 08:00	1371602	8.101	-112.314	264.954	19.179	336.613	378.722	0.183	0.246	7.574	19.179	11.986
2022-07-09 08:15	1372502	8.117	-113.227	272.736	19.154	335.551	377.728	0.183	0.246	7.551	19.154	10.605
2022-07-09 08:30	1373402	8.037	-108.683	277.13	19.05	339.808	383.375	0.185	0.249	7.392	19.05	9.249
2022-07-09 08:45	1374302	7.992	-106.072	279.988	18.918	342.879	387.949	0.188	0.252	7.103	18.918	9.317
2022-07-09 09:00	1375202	7.979	-105.298	275.68	18.876	344.402	390.022	0.189	0.254	6.961	18.876	11.478
2022-07-09 09:15	1376102	7.938	-102.985	281.495	18.748	348.837	396.14	0.192	0.257	6.685	18.748	9.402
2022-07-09 09:30	1377002	7.922	-102.019	280.775	18.663	351.821	400.266	0.194	0.260	***6.499***	18.663	11.612
2022-07-09 09:45	1377902	7.876	-99.411	280.413	18.592	356.307	406	0.197	0.264	***6.365***	18.592	9.646
2022-07-09 10:00	1378802	7.924	-102.088	272.49	18.568	352.613	402	0.195	0.261	***6.316***	18.568	11.894
2022-07-09 10:15	1379702	7.922	-101.974	275.859	18.568	350.989	400.15	0.194	0.260	***6.496***	18.568	8.921
2022-07-09 10:30	1380602	7.996	-106.215	271.665	18.612	345.106	393.066	0.190	0.255	6.798	18.612	9.489
2022-07-09 10:45	1381502	7.967	-104.563	272.19	18.579	345.907	394.261	0.191	0.256	6.766	18.579	9.436

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-09 11:00	1382402	7.976	-105.038	261.914	18.555	344.289	392.616	0.190	0.255	6.717	18.555	10.035
2022-07-09 11:15	1383302	7.891	-100.198	271.584	18.455	348.02	397.743	0.192	0.259	***6.394***	18.455	9.069
2022-07-09 11:30	1384202	7.926	-102.172	269.782	18.492	346.027	395.141	0.191	0.257	***6.406***	18.492	9.672
2022-07-09 11:45	1385102	7.922	-101.981	270.082	18.475	344.907	394.01	0.191	0.256	6.502	18.475	9.027
2022-07-09 12:00	1386002	7.899	-100.648	268.742	18.418	345.543	395.233	0.191	0.257	***6.379***	18.418	10.454
2022-07-09 12:15	1386902	7.938	-102.844	269.908	18.479	343.346	392.192	0.190	0.255	6.578	18.479	10.974
2022-07-09 12:30	1387802	7.965	-104.415	268.9	18.514	341.841	390.179	0.189	0.254	6.652	18.514	10.683
2022-07-09 12:45	1388702	8.007	-106.816	267.524	18.596	339.899	387.266	0.187	0.252	6.930	18.596	12.399
2022-07-09 13:00	1389602	7.994	-106.08	260.517	18.606	339.898	387.187	0.187	0.252	6.897	18.606	11.837
2022-07-09 13:15	1390502	8.011	-107.057	265.283	18.623	339.629	386.733	0.187	0.251	6.977	18.623	8.602
2022-07-09 13:30	1391402	8.026	-107.899	264.901	18.645	338.914	385.731	0.186	0.251	7.028	18.645	10.205
2022-07-09 13:45	1392302	8.075	-110.693	262.565	18.804	337.263	382.53	0.185	0.249	7.227	18.804	9.007
2022-07-09 14:00	1393202	8.067	-110.297	261.84	18.819	337.155	382.284	0.185	0.248	7.391	18.819	11.214
2022-07-09 14:15	1394102	8.075	-110.712	264.813	18.845	336.852	381.729	0.184	0.248	7.441	18.845	13.128
2022-07-09 14:30	1395002	8.100	-112.181	263.914	18.943	336.632	380.668	0.184	0.247	7.570	18.943	10.475
2022-07-09 14:45	1395902	8.093	-111.771	265.004	18.91	336.31	380.583	0.184	0.247	7.577	18.91	10.155
2022-07-09 15:00	1396802	8.097	-112.045	259.353	18.963	336.103	379.911	0.184	0.247	7.636	18.963	10.246
2022-07-09 15:15	1397702	8.130	-113.938	262.627	19.134	336.315	378.749	0.183	0.246	7.801	19.134	11.454
2022-07-09 15:30	1398602	8.156	-115.469	261.423	19.227	336.971	378.735	0.183	0.246	7.850	19.227	11.167
2022-07-09 15:45	1399502	8.149	-115.063	261.919	19.276	336.993	378.357	0.183	0.246	7.972	19.276	10.819
2022-07-09 16:00	1400402	8.146	-114.911	260.481	19.29	337.092	378.358	0.183	0.246	7.994	19.29	12.71
2022-07-09 16:15	1401302	8.155	-115.44	264.379	19.314	337.141	378.216	0.183	0.246	7.992	19.314	12.384
2022-07-09 16:30	1402202	8.159	-115.671	264.15	19.383	337.407	377.953	0.183	0.246	8.107	19.383	13.333
2022-07-09 16:45	1403102	8.171	-116.389	264.298	19.458	337.528	377.488	0.182	0.245	8.171	19.458	10.514
2022-07-09 17:00	1404002	8.177	-116.811	257.901	19.609	338.273	377.1	0.182	0.245	8.264	19.609	12.255
2022-07-09 17:15	1404902	8.164	-115.955	267.872	19.383	336.919	377.407	0.182	0.245	8.186	19.383	10.227
2022-07-09 17:30	1405802	8.191	-117.595	263.349	19.66	338.838	377.324	0.182	0.245	8.286	19.66	10.382
2022-07-09 17:45	1406702	8.199	-118.055	264.148	19.697	339.062	377.271	0.182	0.245	8.364	19.697	9.892
2022-07-09 18:00	1407602	8.188	-117.421	264.611	19.592	338.412	377.396	0.182	0.245	8.344	19.592	14.97
2022-07-09 18:15	1408502	8.210	-118.675	265.366	19.714	339.722	377.873	0.183	0.246	8.384	19.714	12.538
2022-07-09 18:30	1409402	8.198	-117.962	270.433	19.573	338.822	378.005	0.183	0.246	8.410	19.573	12.039
2022-07-09 18:45	1410302	8.190	-117.505	270.132	19.587	338.917	377.998	0.183	0.246	8.379	19.587	10.003
2022-07-09 19:00	1411202	8.189	-117.545	257.916	19.774	340.441	378.194	0.183	0.246	8.378	19.774	13.436
2022-07-09 19:15	1412102	8.199	-118.089	267.507	19.692	340.785	379.231	0.183	0.246	8.362	19.692	11.425
2022-07-09 19:30	1413002	8.186	-117.288	270.075	19.632	340.723	379.649	0.184	0.247	8.333	19.632	11.128
2022-07-09 19:45	1413902	8.209	-118.718	264.203	19.873	341.715	378.81	0.183	0.246	8.382	19.873	10.878
2022-07-09 20:00	1414802	8.196	-117.915	263.907	19.742	342.351	380.567	0.184	0.247	8.377	19.742	14.172
2022-07-09 20:15	1415702	8.212	-118.873	267.486	19.795	342.75	380.582	0.184	0.247	8.374	19.795	10.633
2022-07-09 20:30	1416602	8.218	-119.233	266.251	19.883	342.805	379.938	0.184	0.247	8.397	19.883	10.115
2022-07-09 20:45	1417502	8.231	-119.996	267.176	19.935	347.577	384.804	0.186	0.250	8.449	19.935	11.115
2022-07-09 21:00	1418402	8.211	-118.868	258.853	19.94	344.502	381.356	0.184	0.248	8.408	19.94	9.777
2022-07-09 21:15	1419302	8.227	-119.779	264.835	19.932	344.405	381.318	0.184	0.248	8.408	19.932	11.571
2022-07-09 21:30	1420202	8.231	-120.006	263.926	19.995	344.463	380.874	0.184	0.248	8.408	19.995	9.783
2022-07-09 21:45	1421102	8.227	-119.815	263.268	20.035	347.199	383.57	0.185	0.249	8.423	20.035	11.561
2022-07-09 22:00	1422002	8.226	-119.746	259.041	20.028	346.722	383.104	0.185	0.249	8.396	20.028	11.099
2022-07-09 22:15	1422902	8.232	-120.068	263.664	20.036	346.342	382.621	0.185	0.249	8.403	20.036	10.22
2022-07-09 22:30	1423802	8.223	-119.536	265.795	20.022	348.102	384.678	0.186	0.250	8.330	20.022	10.845
2022-07-09 22:45	1424702	8.220	-119.359	268.115	19.958	347.775	384.836	0.186	0.250	8.373	19.958	10.533

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-09 23:00	1425602	8.205	-118.537	262.343	19.975	347.879	384.815	0.186	0.250	8.356	19.975	15.116
2022-07-09 23:15	1426502	8.217	-119.219	266.628	19.971	347.961	384.936	0.186	0.250	8.361	19.971	10.246
2022-07-09 23:30	1427402	8.226	-119.691	266.339	19.95	347.71	384.832	0.186	0.250	8.341	19.95	9.617
2022-07-09 23:45	1428302	8.227	-119.753	265.547	19.978	347.894	384.807	0.186	0.250	8.367	19.978	9.657
2022-07-10 00:00	1429202	8.223	-119.522	260.607	19.985	348.203	385.086	0.186	0.250	8.315	19.985	12.01
2022-07-10 00:15	1430102	8.233	-120.146	266.072	20.001	348.193	384.949	0.186	0.250	8.361	20.001	9.55
2022-07-10 00:30	1431002	8.228	-119.843	266.813	20.019	348.29	384.908	0.186	0.250	8.327	20.019	9.087
2022-07-10 00:45	1431902	8.232	-120.051	267.173	20.027	348.389	384.956	0.186	0.250	8.319	20.027	10.012
2022-07-10 01:00	1432802	8.218	-119.252	258.126	20.019	348.431	385.064	0.186	0.250	8.303	20.019	7.812
2022-07-10 01:15	1433702	8.241	-120.566	268.375	20.02	349.221	385.93	0.187	0.251	8.322	20.02	8.56
2022-07-10 01:30	1434602	8.241	-120.59	266.129	20.017	350.925	387.841	0.188	0.252	8.325	20.017	8.496
2022-07-10 01:45	1435502	8.240	-120.554	265.996	20.027	352.389	389.377	0.188	0.253	8.328	20.027	8.432
2022-07-10 02:00	1436402	8.233	-120.139	264.63	20.029	353.916	391.046	0.189	0.254	8.324	20.029	9.925
2022-07-10 02:15	1437302	8.243	-120.692	268.749	20.022	354.272	391.493	0.189	0.254	8.329	20.022	8.53
2022-07-10 02:30	1438202	8.246	-120.89	269.255	20.02	355.922	393.334	0.190	0.256	8.310	20.02	8.069
2022-07-10 02:45	1439102	8.245	-120.788	271.255	20.007	357.069	394.711	0.191	0.257	8.311	20.007	8.126
2022-07-10 03:00	1440002	8.229	-119.87	256.852	20.004	358.098	395.873	0.192	0.257	8.283	20.004	8.929
2022-07-10 03:15	1440902	8.242	-120.599	267.209	19.979	359.018	397.101	0.192	0.258	8.266	19.979	8.129
2022-07-10 03:30	1441802	8.237	-120.33	267.894	19.962	359.72	398.022	0.193	0.259	8.217	19.962	8.914
2022-07-10 03:45	1442702	8.234	-120.144	267.238	19.93	359.442	397.981	0.193	0.259	8.195	19.93	8.216
2022-07-10 04:00	1443602	8.233	-120.113	264.942	19.921	361.063	399.853	0.194	0.260	8.210	19.921	9.664
2022-07-10 04:15	1444502	8.236	-120.268	267.963	19.904	361.345	400.312	0.194	0.260	8.149	19.904	8.224
2022-07-10 04:30	1445402	8.230	-119.898	269.129	19.899	361.883	400.95	0.194	0.261	8.149	19.899	8.294
2022-07-10 04:45	1446302	8.237	-120.287	269.889	19.898	363.997	403.3	0.195	0.262	8.174	19.898	7.656
2022-07-10 05:00	1447202	8.227	-119.731	265.798	19.893	365.042	404.502	0.196	0.263	8.150	19.893	10.276
2022-07-10 05:15	1448102	8.207	-118.568	271.179	19.85	363.167	402.787	0.195	0.262	8.099	19.85	9.199
2022-07-10 05:30	1449002	8.206	-118.546	271.534	19.824	363.541	403.422	0.195	0.262	7.878	19.824	9.06
2022-07-10 05:45	1449902	8.186	-117.366	271.405	19.796	367.239	407.771	0.197	0.265	7.919	19.796	8.789
2022-07-10 06:00	1450802	8.180	-117.033	268.449	19.765	368.644	409.604	0.198	0.266	7.857	19.765	11.159
2022-07-10 06:15	1451702	8.178	-116.899	272.798	19.727	367.551	408.716	0.198	0.266	7.847	19.727	8.639
2022-07-10 06:30	1452602	8.172	-116.553	274.648	19.689	367.999	409.544	0.198	0.266	7.625	19.689	8.295
2022-07-10 06:45	1453502	8.190	-117.548	273.515	19.708	371.991	413.816	0.200	0.269	7.801	19.708	8.692
2022-07-10 07:00	1454402	8.164	-116.069	266.844	19.66	370.119	412.156	0.200	0.268	7.767	19.66	14.191
2022-07-10 07:15	1455302	8.165	-116.148	274.312	19.639	368.962	411.047	0.199	0.267	7.701	19.639	8.303
2022-07-10 07:30	1456202	8.162	-115.943	274.777	19.616	369.168	411.486	0.199	0.267	7.685	19.616	8.512
2022-07-10 07:45	1457102	8.145	-114.958	274.872	19.573	368.421	411.026	0.199	0.267	7.639	19.573	10.013
2022-07-10 08:00	1458002	8.153	-115.409	270.433	19.562	371.364	414.411	0.201	0.269	7.556	19.562	9.882
2022-07-10 08:15	1458902	8.123	-113.699	276.894	19.489	370.309	413.873	0.200	0.269	7.495	19.489	8.983
2022-07-10 08:30	1459802	8.106	-112.705	278	19.426	371.523	415.79	0.201	0.270	7.342	19.426	9.712
2022-07-10 08:45	1460702	8.099	-112.293	278.875	19.377	369.519	413.981	0.201	0.269	7.321	19.377	9.147
2022-07-10 09:00	1461602	8.111	-112.946	268.54	19.381	369.962	414.445	0.201	0.269	7.325	19.381	11.364
2022-07-10 09:15	1462502	8.095	-112.009	277.538	19.291	367.728	412.737	0.200	0.268	7.226	19.291	12.655
2022-07-10 09:30	1463402	8.094	-111.969	277.993	19.28	364.099	408.758	0.198	0.266	7.301	19.28	10.661
2022-07-10 09:45	1464302	8.113	-113.034	276.586	19.275	366.498	411.492	0.199	0.267	7.322	19.275	9.798
2022-07-10 10:00	1465202	8.121	-113.504	270.719	19.266	369.958	415.458	0.201	0.270	7.356	19.266	16.948
2022-07-10 10:15	1466102	8.148	-115.035	273.461	19.266	371.892	417.626	0.202	0.271	7.403	19.266	9.972
2022-07-10 10:30	1467002	8.196	-117.729	271.405	19.314	378.714	424.854	0.206	0.276	7.536	19.314	8.99
2022-07-10 10:45	1467902	8.210	-118.554	269.169	19.318	381.353	427.777	0.207	0.278	7.661	19.318	9.312

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-10 11:00	1468802	8.174	-116.475	266.389	19.279	378.134	424.525	0.206	0.276	7.629	19.279	12.608
2022-07-10 11:15	1469702	8.168	-116.169	271.224	19.257	380.021	426.839	0.207	0.277	7.501	19.257	10.244
2022-07-10 11:30	1470602	8.153	-115.28	272.488	19.234	380.473	427.563	0.207	0.278	7.433	19.234	9.198
2022-07-10 11:45	1471502	8.169	-116.186	271.556	19.227	380.642	427.819	0.207	0.278	7.360	19.227	9.343
2022-07-10 12:00	1472402	8.172	-116.351	268.265	19.259	381.41	428.386	0.208	0.278	7.503	19.259	9.906
2022-07-10 12:15	1473302	8.170	-116.248	272.044	19.24	382.726	430.041	0.209	0.280	7.457	19.24	9.957
2022-07-10 12:30	1474202	8.155	-115.38	273.563	19.205	382.499	430.107	0.209	0.280	7.401	19.205	10.07
2022-07-10 12:45	1475102	8.176	-116.589	272.638	19.212	384.804	432.632	0.210	0.281	7.470	19.212	9.575
2022-07-10 13:00	1476002	8.188	-117.264	262.942	19.25	386.143	433.784	0.210	0.282	7.618	19.25	12.385
2022-07-10 13:15	1476902	8.184	-117.011	271.274	19.209	384.652	432.494	0.210	0.281	7.625	19.209	12.775
2022-07-10 13:30	1477802	8.182	-116.918	271.527	19.175	384.629	432.779	0.210	0.281	7.604	19.175	15.291
2022-07-10 13:45	1478702	8.196	-117.724	271.034	19.258	384.642	432.021	0.210	0.281	7.606	19.258	11.651
2022-07-10 14:00	1479602	8.208	-118.43	268.952	19.254	385.114	432.591	0.210	0.281	7.769	19.254	11.697
2022-07-10 14:15	1480502	8.226	-119.426	270.683	19.26	385.779	433.278	0.210	0.282	7.892	19.26	9.677
2022-07-10 14:30	1481402	8.224	-119.295	271.169	19.264	385.579	433.019	0.210	0.281	7.894	19.264	10.765
2022-07-10 14:45	1482302	8.233	-119.874	271.188	19.366	386.33	432.914	0.210	0.281	7.914	19.366	10.98
2022-07-10 15:00	1483202	8.219	-119.059	268.819	19.346	385.4	432.055	0.210	0.281	7.937	19.346	10.544
2022-07-10 15:15	1484102	8.253	-121.024	270.642	19.473	387.38	433.096	0.210	0.282	8.036	19.473	9.739
2022-07-10 15:30	1485002	8.260	-121.474	267.209	19.608	388.882	433.526	0.210	0.282	8.139	19.608	9.519
2022-07-10 15:45	1485902	8.258	-121.381	267.984	19.569	388.494	433.453	0.210	0.282	8.142	19.569	9.847
2022-07-10 16:00	1486802	8.279	-122.688	259.363	19.889	391.709	434.083	0.211	0.282	8.283	19.889	11.766
2022-07-10 16:15	1487702	8.277	-122.523	265.385	19.779	389.951	433.145	0.210	0.282	8.279	19.779	9.695
2022-07-10 16:30	1488602	8.267	-121.858	268.02	19.585	386.894	431.523	0.209	0.280	8.291	19.585	11.748
2022-07-10 16:45	1489502	8.268	-121.906	269.384	19.567	386.867	431.662	0.209	0.281	8.308	19.567	10.274
2022-07-10 17:00	1490402	8.260	-121.479	265.707	19.637	387.525	431.751	0.209	0.281	8.279	19.637	9.922
2022-07-10 17:15	1491302	8.272	-122.247	268.43	19.746	388.323	431.643	0.209	0.281	8.330	19.746	10.424
2022-07-10 17:30	1492202	8.273	-122.294	266.892	19.81	387.679	430.34	0.209	0.280	8.291	19.81	9.194
2022-07-10 17:45	1493102	8.276	-122.476	268.165	19.789	387.471	430.299	0.209	0.280	8.294	19.789	10.335
2022-07-10 18:00	1494002	8.287	-123.241	256.917	20.12	390.503	430.643	0.209	0.280	8.375	20.12	14.281
2022-07-10 18:15	1494902	8.286	-123.16	263.142	20.075	388.931	429.319	0.208	0.279	8.422	20.075	12.925
2022-07-10 18:30	1495802	8.294	-123.677	262.408	20.179	390.337	429.923	0.209	0.279	8.422	20.179	9.604
2022-07-10 18:45	1496702	8.306	-124.381	258.958	20.308	392.303	430.924	0.209	0.280	8.412	20.308	8.333
2022-07-10 19:00	1497602	8.287	-123.358	252.749	20.39	392.266	430.143	0.209	0.280	8.496	20.39	10.832
2022-07-10 19:15	1498502	8.304	-124.333	256.438	20.487	394.046	431.216	0.209	0.280	8.511	20.487	7.92
2022-07-10 19:30	1499402	8.285	-123.219	259.234	20.374	389.392	427.134	0.207	0.278	8.466	20.374	8.157
2022-07-10 19:45	1500302	8.275	-122.595	263.435	20.269	382.907	420.947	0.204	0.274	8.484	20.269	9.301
2022-07-10 20:00	1501202	8.267	-122.132	258.903	20.209	383.435	422.059	0.205	0.274	8.489	20.209	13.032
2022-07-10 20:15	1502102	8.279	-122.886	263.19	20.445	387.902	424.861	0.206	0.276	8.439	20.445	9.347
2022-07-10 20:30	1503002	8.276	-122.709	264.737	20.381	385.835	423.166	0.205	0.275	8.469	20.381	9.391
2022-07-10 20:45	1503902	8.271	-122.395	266.949	20.323	385.046	422.816	0.205	0.275	8.458	20.323	9.169
2022-07-10 21:00	1504802	8.267	-122.24	259.408	20.443	387.874	424.848	0.206	0.276	8.375	20.443	8.385
2022-07-10 21:15	1505702	8.278	-122.91	262.112	20.513	388.439	424.848	0.206	0.276	8.422	20.513	8.159
2022-07-10 21:30	1506602	8.255	-121.491	266.84	20.304	384.203	422.06	0.205	0.274	8.368	20.304	8.215
2022-07-10 21:45	1507502	8.251	-121.157	269.915	20.092	381.525	420.994	0.204	0.274	8.299	20.092	9.168
2022-07-10 22:00	1508402	8.244	-120.804	265.133	20.141	381.445	420.463	0.204	0.273	8.327	20.141	12.139
2022-07-10 22:15	1509302	8.254	-121.336	270.647	20.046	382.725	422.728	0.205	0.275	8.237	20.046	9.034
2022-07-10 22:30	1510202	8.251	-121.162	270.926	20.047	383.847	423.956	0.206	0.276	8.318	20.047	8.29
2022-07-10 22:45	1511102	8.262	-121.784	269.591	20.107	383.094	422.584	0.205	0.275	8.290	20.107	9.375

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-10 23:00	1512002	8.258	-121.617	262.169	20.175	382.8	421.657	0.204	0.274	8.294	20.175	8.906
2022-07-10 23:15	1512902	8.283	-123.057	265.969	20.234	383.216	421.594	0.204	0.274	8.226	20.234	8.104
2022-07-10 23:30	1513802	8.280	-122.893	265.226	20.212	383.21	421.785	0.204	0.274	8.331	20.212	8.394
2022-07-10 23:45	1514702	8.262	-121.846	267.758	20.145	379.704	418.511	0.203	0.272	8.356	20.145	8.845
2022-07-11 00:00	1515602	8.253	-121.3	267.183	20.108	379.754	418.893	0.203	0.272	8.373	20.108	9.409
2022-07-11 00:15	1516502	8.269	-122.211	267.619	20.157	382.011	420.948	0.204	0.274	8.296	20.157	8.004
2022-07-11 00:30	1517402	8.277	-122.719	266.186	20.193	380.971	419.483	0.203	0.273	8.250	20.193	7.777
2022-07-11 00:45	1518302	8.285	-123.179	266.577	20.204	379.928	418.236	0.203	0.272	8.224	20.204	7.873
2022-07-11 01:00	1519202	8.264	-121.946	262.238	20.193	379.402	417.757	0.202	0.272	8.242	20.193	8.282
2022-07-11 01:15	1520102	8.274	-122.504	266.852	20.166	378.835	417.366	0.202	0.271	8.208	20.166	7.426
2022-07-11 01:30	1521002	8.264	-121.927	267.562	20.104	378.814	417.889	0.203	0.272	8.203	20.104	7.708
2022-07-11 01:45	1521902	8.261	-121.737	268.962	20.088	378.586	417.778	0.202	0.272	7.991	20.088	7.392
2022-07-11 02:00	1522802	8.258	-121.56	266.058	20.065	378.163	417.515	0.202	0.271	8.180	20.065	7.928
2022-07-11 02:15	1523702	8.269	-122.206	268.933	20.064	377.46	416.751	0.202	0.271	8.183	20.064	7.68
2022-07-11 02:30	1524602	8.274	-122.471	269.431	20.047	376.506	415.845	0.202	0.270	8.089	20.047	7.773
2022-07-11 02:45	1525502	8.277	-122.643	270.18	20.027	375.522	414.939	0.201	0.270	8.108	20.027	7.185
2022-07-11 03:00	1526402	8.257	-121.465	268.73	20.013	375.02	414.505	0.201	0.269	8.054	20.013	7.179
2022-07-11 03:15	1527302	8.271	-122.294	271.42	19.997	374.246	413.789	0.200	0.269	8.198	19.997	6.813
2022-07-11 03:30	1528202	8.274	-122.449	271.42	19.982	373.695	413.306	0.200	0.269	8.189	19.982	7.353
2022-07-11 03:45	1529102	8.268	-122.113	270.449	19.966	373.449	413.174	0.200	0.269	8.199	19.966	7.309
2022-07-11 04:00	1530002	8.267	-122.015	268.201	19.94	372.922	412.818	0.200	0.268	8.152	19.94	8.697
2022-07-11 04:15	1530902	8.272	-122.302	271.203	19.926	372.197	412.142	0.200	0.268	8.096	19.926	7.576
2022-07-11 04:30	1531802	8.269	-122.147	273.241	19.905	371.516	411.566	0.199	0.268	8.029	19.905	6.983
2022-07-11 04:45	1532702	8.269	-122.125	272.958	19.885	370.735	410.877	0.199	0.267	7.918	19.885	6.59
2022-07-11 05:00	1533602	8.254	-121.241	269.012	19.858	370.062	410.363	0.199	0.267	8.040	19.858	7.344
2022-07-11 05:15	1534502	8.266	-121.918	273.449	19.837	369.346	409.756	0.198	0.266	8.024	19.837	7.281
2022-07-11 05:30	1535402	8.265	-121.88	273.194	19.806	369.166	409.82	0.198	0.266	8.075	19.806	6.979
2022-07-11 05:45	1536302	8.266	-121.908	273.616	19.784	368.283	409.03	0.198	0.266	7.952	19.784	6.755
2022-07-11 06:00	1537202	8.259	-121.512	267.753	19.752	367.971	408.962	0.198	0.266	8.034	19.752	8.448
2022-07-11 06:15	1538102	8.263	-121.686	272.819	19.73	367.683	408.835	0.198	0.266	8.005	19.73	6.788
2022-07-11 06:30	1539002	8.245	-120.69	273.427	19.688	370.36	412.176	0.200	0.268	8.008	19.688	7.4
2022-07-11 06:45	1539902	8.239	-120.32	274.34	19.642	372.505	414.969	0.201	0.270	7.869	19.642	8.85
2022-07-11 07:00	1540802	8.216	-119.011	266.659	19.606	375.729	418.881	0.203	0.272	7.904	19.606	9.511
2022-07-11 07:15	1541702	8.222	-119.324	271.389	19.582	374.645	417.887	0.202	0.272	7.906	19.582	7.416
2022-07-11 07:30	1542602	8.217	-119.021	271.675	19.559	376.687	420.375	0.204	0.273	7.877	19.559	7.9
2022-07-11 07:45	1543502	8.221	-119.247	271.792	19.531	375.41	419.194	0.203	0.272	7.884	19.531	7.504
2022-07-11 08:00	1544402	8.213	-118.778	269.746	19.466	376.725	421.248	0.204	0.274	7.765	19.466	9.975
2022-07-11 08:15	1545302	8.200	-118.036	273.957	19.423	378.346	423.452	0.205	0.275	7.711	19.423	9.295
2022-07-11 08:30	1546202	8.184	-117.126	275.172	19.391	381.304	427.053	0.207	0.278	7.646	19.391	8.634
2022-07-11 08:45	1547102	8.188	-117.326	274.967	19.36	376.644	422.112	0.205	0.274	7.618	19.36	8.927
2022-07-11 09:00	1548002	8.169	-116.21	265.137	19.33	379.28	425.345	0.206	0.276	7.572	19.33	9.438
2022-07-11 09:15	1548902	8.174	-116.503	273.987	19.312	377.74	423.776	0.205	0.275	7.530	19.312	11.447
2022-07-11 09:30	1549802	8.198	-117.86	272.552	19.302	373.363	418.956	0.203	0.272	7.636	19.302	8.671
2022-07-11 09:45	1550702	8.193	-117.598	272.502	19.297	372.209	417.708	0.202	0.272	7.660	19.297	11.189
2022-07-11 10:00	1551602	8.209	-118.468	265.459	19.301	369.469	414.601	0.201	0.269	7.706	19.301	10.524
2022-07-11 10:15	1552502	8.198	-117.848	271.296	19.292	370.571	415.912	0.201	0.270	7.668	19.292	8.417
2022-07-11 10:30	1553402	8.220	-119.088	270.836	19.304	367.351	412.194	0.200	0.268	7.756	19.304	8.766
2022-07-11 10:45	1554302	8.204	-118.189	271.353	19.282	369.207	414.469	0.201	0.269	7.617	19.282	8.843

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-11 11:00	1555202	8.158	-115.569	267.803	19.256	374.71	420.889	0.204	0.274	7.567	19.256	10.337
2022-07-11 11:15	1556102	8.162	-115.795	274.629	19.242	373.498	419.646	0.203	0.273	7.460	19.242	8.817
2022-07-11 11:30	1557002	8.133	-114.143	276.66	19.211	373.97	420.465	0.204	0.273	7.319	19.211	9.219
2022-07-11 11:45	1557902	8.147	-114.934	275.394	19.202	369.011	414.965	0.201	0.270	7.301	19.202	8.984
2022-07-11 12:00	1558802	8.120	-113.399	273.623	19.153	369.245	415.666	0.201	0.270	7.214	19.153	13.154
2022-07-11 12:15	1559702	8.139	-114.467	276.498	19.166	367.518	413.604	0.200	0.269	7.170	19.166	9.893
2022-07-11 12:30	1560602	8.150	-115.087	276.283	19.184	367.427	413.346	0.200	0.269	7.265	19.184	11.207
2022-07-11 12:45	1561502	8.158	-115.569	275.544	19.213	367.419	413.073	0.200	0.268	7.225	19.213	8.791
2022-07-11 13:00	1562402	8.150	-115.135	267.617	19.243	366.915	412.243	0.200	0.268	7.330	19.243	10.865
2022-07-11 13:15	1563302	8.176	-116.591	273.151	19.291	365.406	410.123	0.199	0.267	7.490	19.291	8.404
2022-07-11 13:30	1564202	8.176	-116.603	273.287	19.29	363.825	408.358	0.198	0.265	7.513	19.29	8.244
2022-07-11 13:45	1565102	8.179	-116.77	273.332	19.265	362.787	407.418	0.197	0.265	7.474	19.265	9.309
2022-07-11 14:00	1566002	8.200	-117.97	269.672	19.287	360.518	404.677	0.196	0.263	7.564	19.287	11.81
2022-07-11 14:15	1566902	8.239	-120.223	270.006	19.447	360.851	403.665	0.195	0.262	7.703	19.447	8.79
2022-07-11 14:30	1567802	8.258	-121.326	269.136	19.541	360.981	403.004	0.195	0.262	7.907	19.541	8.691
2022-07-11 14:45	1568702	8.270	-122.035	268.327	19.602	360.772	402.247	0.195	0.261	7.994	19.602	9.536
2022-07-11 15:00	1569602	8.267	-121.884	260.181	19.603	358.843	400.084	0.194	0.260	8.055	19.603	10.317
2022-07-11 15:15	1570502	8.274	-122.273	268.12	19.611	359.258	400.481	0.194	0.260	8.076	19.611	8.512
2022-07-11 15:30	1571402	8.276	-122.395	268.43	19.577	357.404	398.7	0.193	0.259	8.091	19.577	9.142
2022-07-11 15:45	1572302	8.288	-123.034	267.941	19.543	355.638	397.015	0.192	0.258	8.136	19.543	8.959
2022-07-11 16:00	1573202	8.283	-122.728	262.078	19.472	354.198	396.013	0.192	0.257	8.163	19.472	11.609
2022-07-11 16:15	1574102	8.287	-122.974	269.882	19.479	354.17	395.924	0.192	0.257	8.183	19.479	9.573
2022-07-11 16:30	1575002	8.302	-123.966	267.476	19.787	358.129	397.729	0.192	0.259	8.257	19.787	9.57
2022-07-11 16:45	1575902	8.304	-124.083	268.342	19.82	358.045	397.361	0.192	0.258	8.313	19.82	9.256
2022-07-11 17:00	1576802	8.280	-122.619	263.244	19.606	354.479	395.193	0.191	0.257	8.269	19.606	10.059
2022-07-11 17:15	1577702	8.308	-124.297	267.996	19.771	354.707	394.068	0.191	0.256	8.395	19.771	10.516
2022-07-11 17:30	1578602	8.305	-124.061	269.064	19.696	354.302	394.245	0.191	0.256	8.371	19.696	9.616
2022-07-11 17:45	1579502	8.306	-124.154	268.478	19.735	354.46	394.092	0.191	0.256	8.412	19.735	11.164
2022-07-11 18:00	1580402	8.305	-124.149	263.516	19.821	355.67	394.717	0.191	0.257	8.424	19.821	13.825
2022-07-11 18:15	1581302	8.309	-124.357	267.805	19.855	355.462	394.201	0.191	0.256	8.462	19.855	10.06
2022-07-11 18:30	1582202	8.306	-124.171	268.876	19.838	355.263	394.118	0.191	0.256	8.469	19.838	10.179
2022-07-11 18:45	1583102	8.305	-124.137	269.517	19.818	354.284	393.204	0.190	0.256	8.472	19.818	10.723
2022-07-11 19:00	1584002	8.305	-124.211	264.06	20.085	357.375	394.398	0.191	0.256	8.511	20.085	13.166
2022-07-11 19:15	1584902	8.329	-125.756	263.43	20.514	362.68	396.668	0.192	0.258	8.528	20.514	8.887
2022-07-11 19:30	1585802	8.315	-124.979	263.328	20.467	360.508	394.682	0.191	0.257	8.574	20.467	11.044
2022-07-11 19:45	1586702	8.309	-124.605	265.676	20.447	361.486	395.918	0.192	0.257	8.545	20.447	9.3
2022-07-11 20:00	1587602	8.299	-124.023	263.619	20.353	358.011	392.884	0.190	0.255	8.515	20.353	11.322
2022-07-11 20:15	1588502	8.308	-124.557	267.083	20.445	361.146	395.557	0.191	0.257	8.546	20.445	10.436
2022-07-11 20:30	1589402	8.285	-123.234	268.251	20.383	358.286	392.939	0.190	0.255	8.483	20.383	10.762
2022-07-11 20:45	1590302	8.279	-122.812	269.515	20.205	356.531	392.479	0.190	0.255	8.415	20.205	9.874
2022-07-11 21:00	1591202	8.273	-122.397	265.91	20.042	355.052	392.191	0.190	0.255	8.406	20.042	13.076
2022-07-11 21:15	1592102	8.284	-123.231	269.119	20.488	360.44	394.435	0.191	0.256	8.433	20.488	12.495
2022-07-11 21:30	1593002	8.290	-123.56	268.409	20.534	360.965	394.628	0.191	0.257	8.414	20.534	9.015
2022-07-11 21:45	1593902	8.270	-122.39	269.031	20.392	358.411	393.002	0.190	0.255	8.380	20.392	10.475
2022-07-11 22:00	1594802	8.270	-122.39	263.058	20.395	359.117	393.749	0.191	0.256	8.356	20.395	11.635
2022-07-11 22:15	1595702	8.269	-122.354	270.116	20.518	360.256	393.986	0.191	0.256	8.365	20.518	9.467
2022-07-11 22:30	1596602	8.267	-122.273	270.762	20.534	360.184	393.776	0.191	0.256	8.349	20.534	9.306
2022-07-11 22:45	1597502	8.267	-122.254	270.962	20.539	360.274	393.833	0.191	0.256	8.339	20.539	9.168

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-11 23:00	1598402	8.260	-121.899	264.873	20.568	360.493	393.833	0.191	0.256	8.318	20.568	10.244
2022-07-11 23:15	1599302	8.261	-121.927	270.883	20.537	360.211	393.781	0.191	0.256	8.286	20.537	8.86
2022-07-11 23:30	1600202	8.258	-121.784	270.995	20.558	360.28	393.682	0.191	0.256	8.299	20.558	8.675
2022-07-11 23:45	1601102	8.256	-121.653	271.138	20.561	360.242	393.615	0.190	0.256	8.256	20.561	9.088
2022-07-12 00:00	1602002	8.260	-121.839	266.222	20.516	359.759	393.453	0.190	0.256	8.268	20.516	10.657
2022-07-12 00:15	1602902	8.253	-121.422	272.757	20.403	358.95	393.501	0.190	0.256	8.248	20.403	12.473
2022-07-12 00:30	1603802	8.253	-121.384	273.78	20.325	358.506	393.655	0.190	0.256	8.215	20.325	9.327
2022-07-12 00:45	1604702	8.254	-121.412	274.698	20.26	357.584	393.18	0.190	0.256	8.234	20.26	9.486
2022-07-12 01:00	1605602	8.249	-121.109	266.477	20.262	357.528	393.1	0.190	0.256	8.207	20.262	13.833
2022-07-12 01:15	1606502	8.250	-121.191	273.914	20.249	357.414	393.083	0.190	0.256	8.203	20.249	8.595
2022-07-12 01:30	1607402	8.249	-121.071	274.467	20.125	356.134	392.696	0.190	0.255	8.168	20.125	8.821
2022-07-12 01:45	1608302	8.251	-121.169	274.343	20.1	355.795	392.528	0.190	0.255	8.188	20.1	8.821
2022-07-12 02:00	1609202	8.247	-120.95	268.149	20.125	356.48	393.085	0.190	0.256	8.137	20.125	12.589
2022-07-12 02:15	1610102	8.252	-121.226	274.083	20.135	356.536	393.062	0.190	0.255	8.156	20.135	13.807
2022-07-12 02:30	1611002	8.249	-121.102	275.523	20.137	356.481	392.984	0.190	0.255	8.141	20.137	9.103
2022-07-12 02:45	1611902	8.252	-121.214	276.601	20.045	355.555	392.724	0.190	0.255	8.140	20.045	9.253
2022-07-12 03:00	1612802	8.244	-120.733	269.999	20.041	355.502	392.693	0.190	0.255	8.113	20.041	9.199
2022-07-12 03:15	1613702	8.247	-120.952	275.652	20.091	356.158	393.009	0.190	0.255	8.101	20.091	9.98
2022-07-12 03:30	1614602	8.243	-120.676	276.052	20.008	355.322	392.775	0.190	0.255	8.107	20.008	9.291
2022-07-12 03:45	1615502	8.246	-120.859	275.549	19.969	355.05	392.796	0.190	0.255	8.101	19.969	8.875
2022-07-12 04:00	1616402	8.258	-121.531	272.123	19.927	354.666	392.719	0.190	0.255	8.121	19.927	9.374
2022-07-12 04:15	1617302	8.248	-120.928	275.504	19.944	355.025	392.975	0.190	0.255	8.075	19.944	8.953
2022-07-12 04:30	1618202	8.261	-121.684	275.523	19.97	355.374	393.149	0.190	0.256	8.096	19.97	8.889
2022-07-12 04:45	1619102	8.247	-120.914	276.713	19.941	355.13	393.117	0.190	0.256	8.065	19.941	8.044
2022-07-12 05:00	1620002	8.265	-121.908	271.155	19.957	355.281	393.147	0.190	0.256	8.118	19.957	8.919
2022-07-12 05:15	1620902	8.261	-121.639	275.945	19.855	354.832	393.497	0.190	0.256	8.078	19.855	11.946
2022-07-12 05:30	1621802	8.270	-122.163	273.935	19.916	355.498	393.735	0.191	0.256	8.095	19.916	7.493
2022-07-12 05:45	1622702	8.279	-122.695	273.158	19.942	356.015	394.083	0.191	0.256	8.137	19.942	7.637
2022-07-12 06:00	1623602	8.278	-122.633	269.567	19.888	355.629	394.11	0.191	0.256	8.082	19.888	15.438
2022-07-12 06:15	1624502	8.268	-122.049	274.55	19.852	355.43	394.191	0.191	0.256	8.041	19.852	7.818
2022-07-12 06:30	1625402	8.265	-121.887	274.905	19.829	355.279	394.213	0.191	0.256	8.053	19.829	9.993
2022-07-12 06:45	1626302	8.280	-122.709	273.878	19.878	356.054	394.664	0.191	0.257	8.102	19.878	7.818
2022-07-12 07:00	1627202	8.263	-121.725	270.688	19.81	355.47	394.587	0.191	0.256	8.020	19.81	8.932
2022-07-12 07:15	1628102	8.271	-122.223	274.255	19.842	356.014	394.922	0.191	0.257	8.055	19.842	7.632
2022-07-12 07:30	1629002	8.242	-120.49	275.73	19.696	355.924	396.046	0.192	0.257	7.922	19.696	7.35
2022-07-12 07:45	1629902	8.263	-121.734	273.353	19.779	355.922	395.35	0.191	0.257	7.974	19.779	7.173
2022-07-12 08:00	1630802	8.266	-121.901	269.5	19.778	356.158	395.616	0.191	0.257	7.964	19.778	8.544
2022-07-12 08:15	1631702	8.257	-121.388	274.224	19.745	355.858	395.564	0.191	0.257	7.937	19.745	7.811
2022-07-12 08:30	1632602	8.259	-121.484	272.865	19.725	355.671	395.522	0.191	0.257	7.928	19.725	7.812
2022-07-12 08:45	1633502	8.248	-120.869	274.08	19.692	355.792	395.936	0.192	0.257	7.906	19.692	8.205
2022-07-12 09:00	1634402	8.246	-120.754	268.611	19.703	356.084	396.161	0.192	0.258	7.876	19.703	12.16
2022-07-12 09:15	1635302	8.251	-120.997	272.533	19.714	356.437	396.466	0.192	0.258	7.895	19.714	7.822
2022-07-12 09:30	1636202	8.250	-120.952	271.997	19.695	356.399	396.586	0.192	0.258	7.846	19.695	7.607
2022-07-12 09:45	1637102	8.232	-119.939	271.768	19.66	355.993	396.427	0.192	0.258	7.830	19.66	7.69
2022-07-12 10:00	1638002	8.231	-119.822	268.723	19.597	355.914	396.872	0.192	0.258	7.732	19.597	8.939
2022-07-12 10:15	1638902	8.232	-119.896	272.001	19.644	356.604	397.241	0.192	0.258	7.816	19.644	8.293
2022-07-12 10:30	1639802	8.249	-120.914	270.104	19.724	357.504	397.572	0.192	0.258	7.896	19.724	8.934
2022-07-12 10:45	1640702	8.242	-120.518	269.396	19.726	357.812	397.897	0.193	0.259	7.881	19.726	8.813

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-12 11:00	1641602	8.250	-121.009	264.465	19.786	358.775	398.459	0.193	0.259	7.963	19.786	10.098
2022-07-12 11:15	1642502	8.247	-120.792	268.048	19.775	359.514	399.372	0.193	0.260	7.933	19.775	7.805
2022-07-12 11:30	1643402	8.257	-121.431	265.581	19.823	361.545	401.216	0.194	0.261	8.011	19.823	8.56
2022-07-12 11:45	1644302	8.255	-121.284	264.534	19.864	362.844	402.307	0.195	0.261	8.076	19.864	7.137
2022-07-12 12:00	1645202	8.258	-121.515	257.637	19.885	364.333	403.784	0.195	0.262	8.058	19.885	8.879
2022-07-12 12:15	1646102	8.258	-121.469	264.167	19.891	364.585	404.011	0.196	0.263	8.060	19.891	8.68
2022-07-12 12:30	1647002	8.253	-121.222	267.085	19.881	364.295	403.771	0.195	0.262	8.001	19.881	7.887
2022-07-12 12:45	1647902	8.242	-120.568	270.364	19.852	362.693	402.244	0.195	0.261	7.963	19.852	9.131
2022-07-12 13:00	1648802	8.249	-120.995	260.934	19.926	366.911	406.285	0.197	0.264	8.020	19.926	8.452
2022-07-12 13:15	1649702	8.247	-120.9	267.832	19.907	365.676	405.078	0.196	0.263	7.988	19.907	7.86
2022-07-12 13:30	1650602	8.243	-120.637	270.282	19.89	365.057	404.538	0.196	0.263	7.960	19.89	11.836
2022-07-12 13:45	1651502	8.235	-120.163	271.582	19.869	364.145	403.706	0.195	0.262	7.925	19.869	8.209
2022-07-12 14:00	1652402	8.249	-120.997	268.091	19.932	367.047	406.382	0.197	0.264	7.968	19.932	9.977
2022-07-12 14:15	1653302	8.243	-120.647	271.27	19.949	367.458	406.693	0.197	0.264	7.966	19.949	9.514
2022-07-12 14:30	1654202	8.246	-120.835	271.413	19.994	370.478	409.643	0.198	0.266	7.980	19.994	11.115
2022-07-12 14:45	1655102	8.237	-120.33	272.781	19.943	365.613	404.701	0.196	0.263	7.948	19.943	8.707
2022-07-12 15:00	1656002	8.229	-119.874	265.538	19.922	364.97	404.169	0.196	0.263	7.904	19.922	10.775
2022-07-12 15:15	1656902	8.234	-120.144	273.489	19.93	365.875	405.105	0.196	0.263	7.895	19.93	8.46
2022-07-12 15:30	1657802	8.240	-120.521	273.704	19.968	369.113	408.365	0.198	0.265	7.913	19.968	7.564
2022-07-12 15:45	1658702	8.237	-120.327	272.824	19.97	368.715	407.904	0.198	0.265	7.911	19.97	12.1
2022-07-12 16:00	1659602	8.240	-120.487	265.347	19.984	370.079	409.295	0.198	0.266	7.880	19.984	13.345
2022-07-12 16:15	1660502	8.246	-120.85	272.149	20.051	373.954	412.995	0.200	0.268	7.892	20.051	8.628
2022-07-12 16:30	1661402	8.259	-121.615	271.868	20.108	377.976	416.931	0.202	0.271	7.876	20.108	8.505
2022-07-12 16:45	1662302	8.250	-121.126	271.601	20.126	377.381	416.121	0.202	0.270	7.817	20.126	8.499
2022-07-12 17:00	1663202	8.257	-121.52	263.879	20.159	379.104	417.73	0.202	0.272	7.825	20.159	14.253
2022-07-12 17:15	1664102	8.263	-121.915	268.239	20.166	379.678	418.303	0.203	0.272	7.819	20.166	7.764
2022-07-12 17:30	1665002	8.278	-122.781	265.764	20.239	381.689	419.87	0.204	0.273	7.809	20.239	8.008
2022-07-12 17:45	1665902	8.234	-120.189	269.067	20.097	375.478	414.274	0.201	0.269	7.566	20.097	10.551
2022-07-12 18:00	1666802	8.242	-120.652	265.18	20.101	375.607	414.383	0.201	0.269	7.627	20.101	14.541
2022-07-12 18:15	1667702	8.242	-120.704	269.41	20.126	376.272	414.893	0.201	0.270	7.480	20.126	9.26
2022-07-12 18:30	1668602	8.238	-120.416	269.35	20.097	374.398	413.082	0.200	0.269	7.486	20.097	9.65
2022-07-12 18:45	1669502	8.262	-121.822	267.376	20.124	376.988	415.703	0.201	0.270	7.579	20.124	8.224
2022-07-12 19:00	1670402	8.245	-120.854	263.414	20.081	375.252	414.16	0.201	0.269	7.548	20.081	8.672
2022-07-12 19:15	1671302	8.269	-122.211	265.085	20.108	376.569	415.38	0.201	0.270	7.531	20.108	7.674
2022-07-12 19:30	1672202	8.266	-122.018	264.544	20.078	374.713	413.594	0.200	0.269	7.478	20.078	8.405
2022-07-12 19:45	1673102	8.255	-121.384	264.954	20.028	372.99	412.13	0.200	0.268	7.451	20.028	9.026
2022-07-12 20:00	1674002	8.232	-120.029	264.31	19.913	368.831	408.522	0.198	0.266	7.399	19.913	10.061
2022-07-12 20:15	1674902	8.243	-120.692	266.32	19.952	370.835	410.406	0.199	0.267	7.383	19.952	8.511
2022-07-12 20:30	1675802	8.256	-121.388	266.561	19.961	371.666	411.249	0.199	0.267	7.337	19.961	8.272
2022-07-12 20:45	1676702	8.231	-119.951	268.592	19.903	369.59	409.454	0.198	0.266	7.287	19.903	7.978
2022-07-12 21:00	1677602	8.207	-118.589	261.788	19.854	368.934	409.146	0.198	0.266	7.162	19.854	9.575
2022-07-12 21:15	1678502	8.217	-119.162	267.948	19.866	369.205	409.341	0.198	0.266	7.160	19.866	7.445
2022-07-12 21:30	1679402	8.220	-119.302	267.481	19.844	369.123	409.446	0.198	0.266	7.091	19.844	7.138
2022-07-12 21:45	1680302	8.195	-117.865	268.251	19.805	367.11	407.551	0.197	0.265	7.060	19.805	8.561
2022-07-12 22:00	1681202	8.193	-117.779	264.825	19.758	366.191	406.931	0.197	0.265	7.008	19.758	8.343
2022-07-12 22:15	1682102	8.174	-116.663	269.92	19.709	364.684	405.68	0.196	0.264	6.906	19.709	8.548
2022-07-12 22:30	1683002	8.174	-116.63	270.883	19.672	363.357	404.526	0.196	0.263	6.898	19.672	7.632
2022-07-12 22:45	1683902	8.183	-117.126	271.153	19.657	362.768	403.993	0.196	0.263	6.905	19.657	7.737

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-12 23:00	1684802	8.169	-116.355	265.309	19.605	361.664	403.214	0.195	0.262	6.803	19.605	8.138
2022-07-12 23:15	1685702	8.170	-116.394	270.979	19.58	360.893	402.565	0.195	0.262	6.818	19.58	7.177
2022-07-12 23:30	1686602	8.150	-115.247	271.353	19.53	359.867	401.85	0.195	0.261	6.763	19.53	6.889
2022-07-12 23:45	1687502	8.166	-116.136	269.891	19.507	358.614	400.65	0.194	0.260	6.767	19.507	8.679
2022-07-13 00:00	1688402	8.167	-116.186	264.777	19.456	358.037	400.442	0.194	0.260	6.687	19.456	9.326
2022-07-13 00:15	1689302	8.142	-114.758	270.149	19.406	357.142	399.863	0.194	0.260	6.641	19.406	8.539
2022-07-13 00:30	1690202	8.133	-114.231	271.534	19.362	356.137	399.113	0.193	0.259	6.651	19.362	7.332
2022-07-13 00:45	1691102	8.136	-114.341	272.116	19.329	355.291	398.451	0.193	0.259	6.614	19.329	7.312
2022-07-13 01:00	1692002	8.133	-114.183	267.936	19.284	354.361	397.793	0.192	0.259	6.610	19.284	8.549
2022-07-13 01:15	1692902	8.125	-113.683	272.903	19.244	353.732	397.421	0.192	0.258	6.545	19.244	7.16
2022-07-13 01:30	1693802	8.133	-114.148	271.382	19.212	352.226	396.008	0.192	0.257	6.646	19.212	9.376
2022-07-13 01:45	1694702	8.103	-112.457	271.534	19.159	352.55	396.817	0.192	0.258	6.541	19.159	9.527
2022-07-13 02:00	1695602	8.119	-113.325	270.669	19.138	351.685	396.028	0.192	0.257	6.584	19.138	10.994
2022-07-13 02:15	1696502	8.127	-113.773	272.915	19.107	350.406	394.846	0.191	0.257	6.603	19.107	7.62
2022-07-13 02:30	1697402	8.102	-112.333	275.132	19.065	350.654	395.488	0.191	0.257	6.622	19.065	7.508
2022-07-13 02:45	1698302	8.136	-114.272	274.278	19.053	348.67	393.353	0.190	0.256	6.717	19.053	8.438
2022-07-13 03:00	1699202	8.138	-114.338	267.455	19.006	347.458	392.38	0.190	0.255	6.744	19.006	8.958
2022-07-13 03:15	1700102	8.117	-113.177	273.775	18.973	347.723	392.955	0.190	0.255	6.640	18.973	7.346
2022-07-13 03:30	1701002	8.126	-113.635	272.509	18.949	346.954	392.294	0.190	0.255	6.686	18.949	9.692
2022-07-13 03:45	1701902	8.137	-114.238	271.148	18.908	345.587	391.094	0.189	0.254	6.743	18.908	7.394
2022-07-13 04:00	1702802	8.133	-114.009	263.9	18.874	345.45	391.226	0.189	0.254	6.731	18.874	8.558
2022-07-13 04:15	1703702	8.134	-114.036	270.881	18.837	344.39	390.337	0.189	0.254	6.755	18.837	7.434
2022-07-13 04:30	1704602	8.123	-113.385	272.021	18.771	343.909	390.346	0.189	0.254	6.659	18.771	7.926
2022-07-13 04:45	1705502	8.121	-113.292	272.404	18.716	343.352	390.184	0.189	0.254	6.742	18.716	8.009
2022-07-13 05:00	1706402	8.148	-114.77	266.716	18.702	342.049	388.818	0.188	0.253	6.943	18.702	7.737
2022-07-13 05:15	1707302	8.138	-114.214	273.01	18.685	341.972	388.879	0.188	0.253	6.882	18.685	7.689
2022-07-13 05:30	1708202	8.134	-114.007	272.404	18.647	341.398	388.546	0.188	0.253	6.914	18.647	7.864
2022-07-13 05:45	1709102	8.139	-114.226	270.008	18.604	340.717	388.131	0.188	0.252	6.930	18.604	8.074
2022-07-13 06:00	1710002	8.138	-114.186	262.169	18.579	340.753	388.388	0.188	0.252	6.902	18.579	10.035
2022-07-13 06:15	1710902	8.129	-113.657	269.763	18.535	340.232	388.16	0.188	0.252	6.886	18.535	8.277
2022-07-13 06:30	1711802	8.128	-113.554	271.284	18.484	339.837	388.147	0.188	0.252	6.866	18.484	8.591
2022-07-13 06:45	1712702	8.148	-114.72	273.632	18.465	338.705	387.007	0.187	0.252	7.050	18.465	8.434
2022-07-13 07:00	1713602	8.145	-114.548	271.253	18.444	338.362	386.8	0.187	0.251	7.032	18.444	8.994
2022-07-13 07:15	1714502	8.148	-114.667	273.997	18.413	337.952	386.587	0.187	0.251	7.038	18.413	7.736
2022-07-13 07:30	1715402	8.152	-114.882	272.271	18.387	337.495	386.282	0.187	0.251	7.082	18.387	8.294
2022-07-13 07:45	1716302	8.152	-114.884	270.759	18.364	337.105	386.036	0.187	0.251	7.093	18.364	9.36
2022-07-13 08:00	1717202	8.162	-115.442	264.579	18.351	336.798	385.796	0.186	0.251	7.110	18.351	11.399
2022-07-13 08:15	1718102	8.162	-115.464	269.875	18.337	336.525	385.599	0.186	0.251	7.158	18.337	10.57
2022-07-13 08:30	1719002	8.164	-115.542	271.25	18.312	335.984	385.187	0.186	0.250	7.196	18.312	8.638
2022-07-13 08:45	1719902	8.168	-115.764	271.448	18.289	335.631	384.974	0.186	0.250	7.231	18.289	8.779
2022-07-13 09:00	1720802	8.171	-115.91	267.121	18.276	335.197	384.59	0.186	0.250	7.274	18.276	10.956
2022-07-13 09:15	1721702	8.174	-116.105	271.537	18.252	334.862	384.403	0.186	0.250	7.263	18.252	8.19
2022-07-13 09:30	1722602	8.179	-116.365	269.899	18.196	334.24	384.162	0.186	0.250	7.302	18.196	8.406
2022-07-13 09:45	1723502	8.182	-116.479	268.59	18.163	333.827	383.966	0.186	0.250	7.333	18.163	8.358
2022-07-13 10:00	1724402	8.186	-116.718	257.982	18.161	333.843	384	0.186	0.250	7.330	18.161	11.922
2022-07-13 10:15	1725302	8.184	-116.58	266.94	18.142	333.538	383.812	0.185	0.249	7.356	18.142	11.205
2022-07-13 10:30	1726202	8.187	-116.775	268.258	18.116	333.209	383.654	0.185	0.249	7.364	18.116	12.709
2022-07-13 10:45	1727102	8.195	-117.202	268.463	18.108	332.991	383.471	0.185	0.249	7.443	18.108	13.336

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-13 11:00	1728002	8.204	-117.707	258.233	18.132	333.012	383.291	0.185	0.249	7.502	18.132	11.187
2022-07-13 11:15	1728902	8.208	-117.941	266.318	18.152	333.191	383.328	0.185	0.249	7.525	18.152	11.67
2022-07-13 11:30	1729802	8.214	-118.318	266.394	18.176	333.283	383.23	0.185	0.249	7.559	18.176	9.436
2022-07-13 11:45	1730702	8.221	-118.713	265.321	18.201	333.39	383.148	0.185	0.249	7.619	18.201	7.858
2022-07-13 12:00	1731602	8.224	-118.873	260.519	18.181	333.322	383.232	0.185	0.249	7.611	18.181	10.54
2022-07-13 12:15	1732502	8.237	-119.591	267.35	18.149	332.911	383.029	0.185	0.249	7.698	18.149	9.866
2022-07-13 12:30	1733402	8.237	-119.569	268.54	18.157	332.944	383.006	0.185	0.249	7.688	18.157	8.752
2022-07-13 12:45	1734302	8.243	-119.917	269.236	18.166	332.998	382.988	0.185	0.249	7.708	18.166	9.507
2022-07-13 13:00	1735202	8.249	-120.304	263.347	18.184	333.094	382.951	0.185	0.249	7.778	18.184	12.585
2022-07-13 13:15	1736102	8.263	-121.086	267.996	18.185	333.009	382.839	0.185	0.249	7.837	18.185	9.084
2022-07-13 13:30	1737002	8.263	-121.069	267.176	18.209	333.264	382.937	0.185	0.249	7.881	18.209	9.219
2022-07-13 13:45	1737902	8.268	-121.365	266.542	18.21	333.263	382.926	0.185	0.249	7.914	18.21	8.828
2022-07-13 14:00	1738802	8.279	-121.982	263.652	18.207	333.357	383.06	0.185	0.249	7.955	18.207	10.755
2022-07-13 14:15	1739702	8.275	-121.768	266.148	18.269	333.827	383.076	0.185	0.249	7.963	18.269	9.78
2022-07-13 14:30	1740602	8.279	-122.008	266.451	18.268	333.814	383.072	0.185	0.249	7.984	18.268	10.25
2022-07-13 14:45	1741502	8.282	-122.194	266.871	18.314	334.139	383.06	0.185	0.249	7.985	18.314	10.09
2022-07-13 15:00	1742402	8.281	-122.173	260.04	18.447	335.117	383.059	0.185	0.249	8.049	18.447	14.177
2022-07-13 15:15	1743302	8.284	-122.325	265.733	18.341	334.219	382.925	0.185	0.249	8.024	18.341	9.524
2022-07-13 15:30	1744202	8.286	-122.44	265.3	18.376	334.693	383.171	0.185	0.249	8.047	18.376	11.601
2022-07-13 15:45	1745102	8.289	-122.662	264.301	18.452	335.062	382.954	0.185	0.249	8.104	18.452	10.33
2022-07-13 16:00	1746002	8.296	-123.041	258.466	18.484	335.366	383.037	0.185	0.249	8.116	18.484	15.261
2022-07-13 16:15	1746902	8.288	-122.597	265.772	18.445	335.154	383.119	0.185	0.249	8.099	18.445	11.337
2022-07-13 16:30	1747802	8.288	-122.614	266.842	18.487	335.504	383.173	0.185	0.249	8.097	18.487	12.113
2022-07-13 16:45	1748702	8.293	-122.917	265.879	18.58	336.16	383.138	0.185	0.249	8.144	18.58	11.782
2022-07-13 17:00	1749602	8.290	-122.764	261.537	18.597	336.286	383.139	0.185	0.249	8.168	18.597	24.477
2022-07-13 17:15	1750502	8.294	-123.031	264.081	18.728	337.21	383.104	0.185	0.249	8.205	18.728	10.522
2022-07-13 17:30	1751402	8.302	-123.534	262.746	18.821	338.168	383.422	0.185	0.249	8.250	18.821	10.632
2022-07-13 17:45	1752302	8.293	-122.979	264.246	18.687	336.883	383.075	0.185	0.249	8.193	18.687	9.486
2022-07-13 18:00	1753202	8.294	-123.045	259.084	18.708	337.278	383.344	0.185	0.249	8.185	18.708	16.038
2022-07-13 18:15	1754102	8.290	-122.819	265.679	18.726	337.56	383.517	0.185	0.249	8.190	18.726	10.18
2022-07-13 18:30	1755002	8.283	-122.426	266.58	18.707	337.098	383.154	0.185	0.249	8.178	18.707	10.502
2022-07-13 18:45	1755902	8.284	-122.499	267.426	18.754	337.723	383.468	0.185	0.249	8.168	18.754	10.201
2022-07-13 19:00	1756802	8.282	-122.404	263.747	18.86	338.436	383.399	0.185	0.249	8.190	18.86	11.115
2022-07-13 19:15	1757702	8.283	-122.459	267.226	18.835	338.3	383.456	0.185	0.249	8.166	18.835	9.848
2022-07-13 19:30	1758602	8.276	-122.07	266.21	18.798	337.902	383.311	0.185	0.249	8.132	18.798	8.937
2022-07-13 19:45	1759502	8.270	-121.71	266.654	18.803	338.048	383.429	0.185	0.249	8.086	18.803	10.197
2022-07-13 20:00	1760402	8.274	-121.984	262.408	18.854	338.547	383.572	0.185	0.249	8.104	18.854	11.23
2022-07-13 20:15	1761302	8.275	-122.063	264.868	18.943	339.235	383.611	0.185	0.249	8.145	18.943	10.603
2022-07-13 20:30	1762202	8.270	-121.794	266.74	18.929	339.317	383.82	0.186	0.249	8.088	18.929	10.23
2022-07-13 20:45	1763102	8.278	-122.28	265.037	19.029	340.068	383.84	0.186	0.249	8.124	19.029	10.198
2022-07-13 21:00	1764002	8.270	-121.834	258.571	19.029	340.048	383.818	0.186	0.249	8.121	19.029	10.716
2022-07-13 21:15	1764902	8.279	-122.347	263.528	19.065	340.325	383.839	0.186	0.249	8.130	19.065	9.523
2022-07-13 21:30	1765802	8.280	-122.397	262.732	19.108	340.832	384.053	0.186	0.250	8.146	19.108	9.376
2022-07-13 21:45	1766702	8.271	-121.868	263.65	19.085	340.575	383.95	0.186	0.250	8.106	19.085	10.642
2022-07-13 22:00	1767602	8.274	-122.044	261.127	19.083	340.592	383.99	0.186	0.250	8.112	19.083	10.909
2022-07-13 22:15	1768502	8.274	-122.035	264.494	19.083	340.673	384.084	0.186	0.250	8.134	19.083	9.538
2022-07-13 22:30	1769402	8.269	-121.772	265.185	19.098	340.82	384.118	0.186	0.250	8.123	19.098	9.535
2022-07-13 22:45	1770302	8.266	-121.586	266.072	19.073	340.584	384.063	0.186	0.250	8.127	19.073	9.987

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-13 23:00	1771202	8.255	-121	260.126	19.048	340.364	384.019	0.186	0.250	8.063	19.048	16.513
2022-07-13 23:15	1772102	8.261	-121.31	266.63	19.031	340.227	384.006	0.186	0.250	8.084	19.031	9.319
2022-07-13 23:30	1773002	8.264	-121.479	265.991	19.011	340.158	384.092	0.186	0.250	8.103	19.011	8.68
2022-07-13 23:45	1773902	8.263	-121.403	265.266	18.985	339.955	384.084	0.186	0.250	8.104	18.985	9.689
2022-07-14 00:00	1774802	8.268	-121.646	262.362	18.967	339.875	384.137	0.186	0.250	8.076	18.967	9.539
2022-07-14 00:15	1775702	8.263	-121.4	267.145	18.93	339.522	384.05	0.186	0.250	8.107	18.93	9.41
2022-07-14 00:30	1776602	8.263	-121.381	268.614	18.916	339.438	384.068	0.186	0.250	8.095	18.916	8.569
2022-07-14 00:45	1777502	8.268	-121.617	270.068	18.898	339.277	384.032	0.186	0.250	8.112	18.898	9.415
2022-07-14 01:00	1778402	8.259	-121.105	267.586	18.884	338.99	383.823	0.186	0.249	8.108	18.884	11.019
2022-07-14 01:15	1779302	8.264	-121.419	272.717	18.863	338.833	383.823	0.186	0.249	8.091	18.863	7.85
2022-07-14 01:30	1780202	8.260	-121.152	272.602	18.836	338.599	383.785	0.186	0.249	8.054	18.836	7.959
2022-07-14 01:45	1781102	8.256	-120.957	271.68	18.814	338.377	383.716	0.185	0.249	8.094	18.814	7.685
2022-07-14 02:00	1782002	8.258	-121.009	265.424	18.794	338.372	383.873	0.186	0.250	8.065	18.794	9.789
2022-07-14 02:15	1782902	8.256	-120.895	272.297	18.77	338.165	383.843	0.186	0.249	8.050	18.77	8.508
2022-07-14 02:30	1783802	8.251	-120.64	273.318	18.74	337.93	383.819	0.186	0.249	8.027	18.74	9.03
2022-07-14 02:45	1784702	8.247	-120.385	274.281	18.713	337.696	383.785	0.185	0.249	8.005	18.713	9.063
2022-07-14 03:00	1785602	8.242	-120.108	268.699	18.67	337.308	383.695	0.185	0.249	7.999	18.67	9.908
2022-07-14 03:15	1786502	8.242	-120.096	274.812	18.646	337.15	383.722	0.185	0.249	7.971	18.646	8.928
2022-07-14 03:30	1787402	8.242	-120.034	274.123	18.609	336.786	383.615	0.185	0.249	7.956	18.609	8.553
2022-07-14 03:45	1788302	8.238	-119.81	272.946	18.562	336.42	383.591	0.185	0.249	7.949	18.562	11.614
2022-07-14 04:00	1789202	8.241	-119.965	269.88	18.508	336.112	383.692	0.185	0.249	7.964	18.508	12.575
2022-07-14 04:15	1790102	8.237	-119.7	273.587	18.45	335.596	383.588	0.185	0.249	7.982	18.45	8.949
2022-07-14 04:30	1791002	8.241	-119.908	275.072	18.405	335.104	383.402	0.185	0.249	7.989	18.405	8.51
2022-07-14 04:45	1791902	8.238	-119.739	276.193	18.364	334.751	383.338	0.185	0.249	7.997	18.364	8.265
2022-07-14 05:00	1792802	8.235	-119.541	273.065	18.317	334.305	383.218	0.185	0.249	7.995	18.317	11.511
2022-07-14 05:15	1793702	8.238	-119.72	277.101	18.269	333.806	383.05	0.185	0.249	8.017	18.269	7.714
2022-07-14 05:30	1794602	8.234	-119.474	276.82	18.226	333.369	382.914	0.185	0.249	7.996	18.226	8.008
2022-07-14 05:45	1795502	8.238	-119.674	278.033	18.186	332.954	382.768	0.185	0.249	8.009	18.186	7.744
2022-07-14 06:00	1796402	8.235	-119.464	273.21	18.144	332.6	382.714	0.185	0.249	8.024	18.144	10.402
2022-07-14 06:15	1797302	8.233	-119.348	278.737	18.111	332.258	382.601	0.185	0.249	8.026	18.111	8.28
2022-07-14 06:30	1798202	8.235	-119.45	279.624	18.079	331.927	382.488	0.185	0.249	8.034	18.079	8.022
2022-07-14 06:45	1799102	8.234	-119.352	279.812	18.032	331.356	382.228	0.185	0.248	8.046	18.032	9.375
2022-07-14 07:00	1800002	8.232	-119.25	273.325	17.999	330.888	381.962	0.185	0.248	8.057	17.999	9.385
2022-07-14 07:15	1800902	8.236	-119.433	278.36	17.964	330.589	381.91	0.185	0.248	8.060	17.964	8.939
2022-07-14 07:30	1801802	8.234	-119.338	278.596	17.94	330.231	381.703	0.184	0.248	8.070	17.94	8.232
2022-07-14 07:45	1802702	8.234	-119.312	278.036	17.914	329.999	381.653	0.184	0.248	8.070	17.914	8.14
2022-07-14 08:00	1803602	8.237	-119.472	273.625	17.889	329.861	381.707	0.184	0.248	8.072	17.889	12.433
2022-07-14 08:15	1804502	8.236	-119.395	276.934	17.856	329.559	381.633	0.184	0.248	8.073	17.856	9.791
2022-07-14 08:30	1805402	8.237	-119.436	277.251	17.827	329.229	381.497	0.184	0.248	8.098	17.827	8.942
2022-07-14 08:45	1806302	8.238	-119.507	277.433	17.809	329.262	381.687	0.184	0.248	8.099	17.809	8.864
2022-07-14 09:00	1807202	8.240	-119.627	270.275	17.789	328.827	381.352	0.184	0.248	8.106	17.789	10.322
2022-07-14 09:15	1808102	8.238	-119.488	276.343	17.779	328.674	381.256	0.184	0.248	8.132	17.779	10.804
2022-07-14 09:30	1809002	8.236	-119.402	276.591	17.78	328.478	381.025	0.184	0.248	8.107	17.78	9.205
2022-07-14 09:45	1809902	8.242	-119.71	274.915	17.767	328.442	381.093	0.184	0.248	8.122	17.767	8.634
2022-07-14 10:00	1810802	8.247	-119.979	272.931	17.769	328.464	381.1	0.184	0.248	8.163	17.769	11.082
2022-07-14 10:15	1811702	8.246	-119.92	274.958	17.768	328.356	380.98	0.184	0.248	8.167	17.768	10.026
2022-07-14 10:30	1812602	8.252	-120.256	274.87	17.779	328.222	380.73	0.184	0.247	8.213	17.779	9.366
2022-07-14 10:45	1813502	8.259	-120.695	274.96	17.789	328.05	380.45	0.184	0.247	8.227	17.789	10.098

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-14 11:00	1814402	8.260	-120.714	268.184	17.804	327.868	380.109	0.184	0.247	8.323	17.804	9.704
2022-07-14 11:15	1815302	8.276	-121.622	272.903	17.829	327.798	379.818	0.183	0.247	8.408	17.829	8.861
2022-07-14 11:30	1816202	8.278	-121.777	271.594	17.856	327.954	379.77	0.183	0.247	8.437	17.856	8.124
2022-07-14 11:45	1817102	8.269	-121.257	271.091	17.856	327.994	379.821	0.183	0.247	8.396	17.856	15.292
2022-07-14 12:00	1818002	8.268	-121.217	268.153	17.869	328.077	379.809	0.183	0.247	8.356	17.869	14.402
2022-07-14 12:15	1818902	8.268	-121.226	273.976	17.887	328.059	379.636	0.183	0.247	8.372	17.887	9.587
2022-07-14 12:30	1819802	8.271	-121.393	275.165	17.905	328.001	379.414	0.183	0.247	8.418	17.905	8.831
2022-07-14 12:45	1820702	8.271	-121.415	276.117	17.905	327.849	379.241	0.183	0.247	8.394	17.905	9.639
2022-07-14 13:00	1821602	8.267	-121.191	273.847	17.921	327.862	379.12	0.183	0.246	8.418	17.921	11.776
2022-07-14 13:15	1822502	8.273	-121.534	277.185	17.939	328.069	379.211	0.183	0.246	8.436	17.939	9.446
2022-07-14 13:30	1823402	8.279	-121.891	274.736	18.017	328.615	379.19	0.183	0.246	8.434	18.017	8.385
2022-07-14 13:45	1824302	8.279	-121.901	273.375	18.028	328.479	378.938	0.183	0.246	8.476	18.028	8.6
2022-07-14 14:00	1825202	8.290	-122.559	267.235	18.107	329.105	379	0.183	0.246	8.533	18.107	16.698
2022-07-14 14:15	1826102	8.289	-122.473	272.962	18.067	328.59	378.742	0.183	0.246	8.552	18.067	8.924
2022-07-14 14:30	1827002	8.295	-122.859	274.951	18.122	328.974	378.723	0.183	0.246	8.562	18.122	9.648
2022-07-14 14:45	1827902	8.304	-123.391	274.677	18.159	328.688	378.093	0.183	0.246	8.623	18.159	8.046
2022-07-14 15:00	1828802	8.298	-123.079	269.729	18.227	329.203	378.117	0.183	0.246	8.637	18.227	11.027
2022-07-14 15:15	1829702	8.308	-123.591	272.466	18.22	329.09	378.047	0.183	0.246	8.612	18.22	7.629
2022-07-14 15:30	1830602	8.315	-124.035	271.265	18.319	329.827	378.073	0.183	0.246	8.720	18.319	7.839
2022-07-14 15:45	1831502	8.331	-124.936	270.979	18.325	328.831	376.878	0.182	0.245	8.755	18.325	7.776
2022-07-14 16:00	1832402	8.336	-125.27	262.861	18.364	328.998	376.753	0.182	0.245	8.791	18.364	9.645
2022-07-14 16:15	1833302	8.353	-126.216	269.717	18.417	328.44	375.675	0.181	0.244	8.818	18.417	7.341
2022-07-14 16:30	1834202	8.335	-125.22	272.967	18.392	328.977	376.495	0.182	0.245	8.810	18.392	7.472
2022-07-14 16:45	1835102	8.332	-125.015	274.526	18.35	328.689	376.515	0.182	0.245	8.782	18.35	8.039
2022-07-14 17:00	1836002	8.319	-124.3	268.702	18.368	329.012	376.73	0.182	0.245	8.756	18.368	7.784
2022-07-14 17:15	1836902	8.320	-124.347	275.029	18.302	328.568	376.765	0.182	0.245	8.730	18.302	7.724
2022-07-14 17:30	1837802	8.326	-124.679	274.958	18.354	329.114	376.962	0.182	0.245	8.741	18.354	8.099
2022-07-14 17:45	1838702	8.356	-126.467	270.766	18.54	329.713	376.12	0.182	0.244	8.810	18.54	7.285
2022-07-14 18:00	1839602	8.353	-126.297	265.996	18.502	328.964	375.574	0.181	0.244	8.852	18.502	9.317
2022-07-14 18:15	1840502	8.374	-127.509	269.98	18.576	328.767	374.749	0.181	0.244	8.888	18.576	9.178
2022-07-14 18:30	1841402	8.387	-128.224	269.925	18.636	328.424	373.867	0.181	0.243	8.908	18.636	8.212
2022-07-14 18:45	1842302	8.392	-128.562	270.137	18.675	328.439	373.573	0.180	0.243	8.922	18.675	7.53
2022-07-14 19:00	1843202	8.384	-128.059	266.675	18.653	328.066	373.326	0.180	0.243	8.920	18.653	8.328
2022-07-14 19:15	1844102	8.402	-129.12	269.93	18.671	327.548	372.591	0.180	0.242	8.916	18.671	7.455
2022-07-14 19:30	1845002	8.402	-129.104	270.554	18.675	327.489	372.486	0.180	0.242	8.861	18.675	7.371
2022-07-14 19:45	1845902	8.403	-129.156	270.025	18.697	327.909	372.785	0.180	0.242	8.851	18.697	6.996
2022-07-14 20:00	1846802	8.396	-128.808	265.19	18.82	329.098	373.143	0.180	0.243	8.929	18.82	12.592
2022-07-14 20:15	1847702	8.402	-129.149	269.992	18.772	328.449	372.79	0.180	0.242	8.880	18.772	8.438
2022-07-14 20:30	1848602	8.405	-129.309	270.981	18.763	328.079	372.447	0.180	0.242	8.882	18.763	9.231
2022-07-14 20:45	1849502	8.406	-129.349	272.392	18.749	327.921	372.384	0.180	0.242	8.847	18.749	7.993
2022-07-14 21:00	1850402	8.392	-128.598	268.234	18.846	328.625	372.397	0.180	0.242	8.836	18.846	9.434
2022-07-14 21:15	1851302	8.407	-129.454	271.553	18.873	328.752	372.323	0.180	0.242	8.863	18.873	7.032
2022-07-14 21:30	1852202	8.406	-129.478	271.095	18.949	329.078	372.078	0.180	0.242	8.863	18.949	8.039
2022-07-14 21:45	1853102	8.413	-129.893	268.616	19.006	329.006	371.546	0.179	0.242	8.812	19.006	7.57
2022-07-14 22:00	1854002	8.394	-128.713	265.669	18.841	328.538	372.341	0.180	0.242	8.792	18.841	29.595
2022-07-14 22:15	1854902	8.397	-128.87	271.377	18.833	328.562	372.43	0.180	0.242	8.795	18.833	17.312
2022-07-14 22:30	1855802	8.389	-128.496	272.173	18.906	329.342	372.725	0.180	0.242	8.754	18.906	8.146
2022-07-14 22:45	1856702	8.395	-128.834	272.481	18.936	329.264	372.399	0.180	0.242	8.804	18.936	7.782

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-14 23:00	1857602	8.381	-128.064	271.641	18.938	329.084	372.173	0.180	0.242	8.733	18.938	8.833
2022-07-14 23:15	1858502	8.399	-129.049	273.492	18.865	327.978	371.509	0.179	0.241	8.742	18.865	6.967
2022-07-14 23:30	1859402	8.395	-128.789	272.831	18.894	328.34	371.691	0.180	0.242	8.700	18.894	7.586
2022-07-14 23:45	1860302	8.391	-128.565	272.557	18.876	328.454	371.958	0.180	0.242	8.729	18.876	8.482
2022-07-15 00:00	1861202	8.393	-128.679	263.519	18.898	327.892	371.145	0.179	0.241	8.669	18.898	21.983
2022-07-15 00:15	1862102	8.393	-128.696	271.074	18.865	328.192	371.757	0.180	0.242	8.699	18.865	7.724
2022-07-15 00:30	1863002	8.396	-128.829	273.554	18.867	327.921	371.432	0.179	0.241	8.670	18.867	7.003
2022-07-15 00:45	1863902	8.383	-128.062	274.617	18.794	328.136	372.262	0.180	0.242	8.692	18.794	7.334
2022-07-15 01:00	1864802	8.371	-127.411	272.085	18.846	327.841	371.506	0.179	0.241	8.562	18.846	8.147
2022-07-15 01:15	1865702	8.387	-128.319	274.786	18.852	327.387	370.944	0.179	0.241	8.559	18.852	7.027
2022-07-15 01:30	1866602	8.376	-127.707	274.14	18.799	328.02	372.087	0.180	0.242	8.638	18.799	8.017
2022-07-15 01:45	1867502	8.378	-127.8	272.204	18.806	327.64	371.604	0.179	0.242	8.519	18.806	7.168
2022-07-15 02:00	1868402	8.361	-126.839	270.662	18.763	327.834	372.167	0.180	0.242	8.570	18.763	14.369
2022-07-15 02:15	1869302	8.373	-127.509	272.7	18.784	327.585	371.72	0.180	0.242	8.487	18.784	8.109
2022-07-15 02:30	1870202	8.365	-127.053	274.147	18.753	327.692	372.089	0.180	0.242	8.500	18.753	8.497
2022-07-15 02:45	1871102	8.368	-127.22	274.383	18.754	327.047	371.35	0.179	0.241	8.493	18.754	7.193
2022-07-15 03:00	1872002	8.355	-126.507	270.974	18.729	327.154	371.669	0.179	0.242	8.469	18.729	7.346
2022-07-15 03:15	1872902	8.355	-126.486	274.212	18.694	327.2	372.007	0.180	0.242	8.439	18.694	6.826
2022-07-15 03:30	1873802	8.349	-126.104	273.933	18.644	327.171	372.377	0.180	0.242	8.431	18.644	7.124
2022-07-15 03:45	1874702	8.361	-126.786	272.502	18.651	326.766	371.857	0.180	0.242	8.436	18.651	6.618
2022-07-15 04:00	1875602	8.347	-125.976	268.447	18.612	326.981	372.422	0.180	0.242	8.414	18.612	23.266
2022-07-15 04:15	1876502	8.349	-126.104	274.579	18.583	327.297	373.016	0.180	0.242	8.454	18.583	7.166
2022-07-15 04:30	1877402	8.356	-126.46	274.939	18.583	326.06	371.605	0.179	0.242	8.347	18.583	6.643
2022-07-15 04:45	1878302	8.332	-125.105	278.255	18.519	327.103	373.315	0.180	0.243	8.440	18.519	7.224
2022-07-15 05:00	1879202	8.302	-123.377	274.557	18.466	327.752	374.488	0.181	0.243	8.427	18.466	7.61
2022-07-15 05:15	1880102	8.320	-124.419	278.343	18.471	326.728	373.281	0.180	0.243	8.317	18.471	6.683
2022-07-15 05:30	1881002	8.334	-125.163	276.67	18.474	325.858	372.258	0.180	0.242	8.324	18.474	6.532
2022-07-15 05:45	1881902	8.294	-122.926	277.364	18.405	328.29	375.603	0.181	0.244	8.351	18.405	8.639
2022-07-15 06:00	1882802	8.297	-123.093	272.271	18.387	326.982	374.254	0.181	0.243	8.310	18.387	10.695
2022-07-15 06:15	1883702	8.301	-123.315	276.775	18.396	326.719	373.877	0.181	0.243	8.263	18.396	8.249
2022-07-15 06:30	1884602	8.292	-122.793	279.607	18.344	327.344	375.02	0.181	0.244	8.284	18.344	7.101
2022-07-15 06:45	1885502	8.283	-122.249	280.391	18.34	327.097	374.773	0.181	0.244	8.217	18.34	7.655
2022-07-15 07:00	1886402	8.267	-121.338	275.168	18.294	327.23	375.297	0.181	0.244	8.198	18.294	8.573
2022-07-15 07:15	1887302	8.276	-121.865	279.896	18.294	327.063	375.112	0.181	0.244	8.206	18.294	9.001
2022-07-15 07:30	1888202	8.277	-121.884	280.158	18.279	326.723	374.845	0.181	0.244	8.185	18.279	8.987
2022-07-15 07:45	1889102	8.258	-120.778	280.668	18.231	327.711	376.37	0.182	0.245	8.156	18.231	8.858
2022-07-15 08:00	1890002	8.253	-120.513	275.232	18.22	327.353	376.055	0.182	0.244	8.098	18.22	11.333
2022-07-15 08:15	1890902	8.246	-120.142	281.228	18.217	327.374	376.099	0.182	0.244	8.045	18.217	8.904
2022-07-15 08:30	1891802	8.256	-120.673	282.871	18.216	326.532	375.137	0.181	0.244	8.009	18.216	8.323
2022-07-15 08:45	1892702	8.246	-120.084	284.347	18.192	326.957	375.827	0.182	0.244	7.975	18.192	8.97
2022-07-15 09:00	1893602	8.217	-118.463	278.103	18.173	327.485	376.59	0.182	0.245	7.905	18.173	9.749
2022-07-15 09:15	1894502	8.225	-118.916	283.76	18.167	327.33	376.466	0.182	0.245	7.854	18.167	9.949
2022-07-15 09:30	1895402	8.224	-118.861	281.588	18.167	327.078	376.17	0.182	0.245	7.836	18.167	10.396
2022-07-15 09:45	1896302	8.203	-117.691	281.798	18.136	327.458	376.864	0.182	0.245	7.798	18.136	12.688
2022-07-15 10:00	1897202	8.196	-117.297	274.455	18.141	326.936	376.228	0.182	0.245	7.671	18.141	36.697
2022-07-15 10:15	1898102	8.190	-116.928	279.953	18.133	326.714	376.032	0.182	0.244	7.564	18.133	16.373
2022-07-15 10:30	1899002	8.201	-117.55	281.581	18.127	325.417	374.594	0.181	0.243	7.544	18.127	13.247
2022-07-15 10:45	1899902	8.212	-118.144	282.532	18.118	324.665	373.803	0.181	0.243	7.461	18.118	13.264

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-15 11:00	1900802	8.210	-118.055	279.042	18.104	324.162	373.337	0.180	0.243	7.655	18.104	12.658
2022-07-15 11:15	1901702	8.210	-118.043	282.871	18.101	325.121	374.465	0.181	0.243	7.690	18.101	12.006
2022-07-15 11:30	1902602	8.196	-117.226	281.648	18.082	325.276	374.801	0.181	0.244	7.634	18.082	12.448
2022-07-15 11:45	1903502	8.203	-117.662	280.337	18.07	324.483	373.985	0.181	0.243	7.600	18.07	11.282
2022-07-15 12:00	1904402	8.204	-117.681	273.58	18.052	324.116	373.708	0.180	0.243	7.602	18.052	16.039
2022-07-15 12:15	1905302	8.237	-119.548	279.121	18.045	322.684	372.113	0.180	0.242	7.723	18.045	9.102
2022-07-15 12:30	1906202	8.232	-119.274	280.854	18.039	322.549	372.013	0.180	0.242	7.806	18.039	8.597
2022-07-15 12:45	1907102	8.244	-119.917	282.315	18.035	321.734	371.103	0.179	0.241	7.794	18.035	8.139
2022-07-15 13:00	1908002	8.234	-119.393	280.02	18.023	321.17	370.546	0.179	0.241	7.860	18.023	9.383
2022-07-15 13:15	1908902	8.262	-120.955	282.404	18.015	320.175	369.464	0.178	0.240	7.865	18.015	7.717
2022-07-15 13:30	1909802	8.271	-121.472	280.799	18.018	319.836	369.05	0.178	0.240	7.802	18.018	7.158
2022-07-15 13:45	1910702	8.268	-121.293	280.31	18.029	319.954	369.094	0.178	0.240	7.998	18.029	7.73
2022-07-15 14:00	1911602	8.261	-120.859	272.488	18.025	320.126	369.332	0.178	0.240	7.997	18.025	8.421
2022-07-15 14:15	1912502	8.272	-121.491	278.52	18.026	319.859	369.011	0.178	0.240	7.878	18.026	6.917
2022-07-15 14:30	1913402	8.283	-122.132	279.707	18.064	319.76	368.593	0.178	0.240	8.032	18.064	7.164
2022-07-15 14:45	1914302	8.295	-122.857	280.854	18.105	319.742	368.24	0.178	0.239	8.020	18.105	9.139
2022-07-15 15:00	1915202	8.278	-121.894	277.635	18.126	319.875	368.218	0.178	0.239	8.014	18.126	7.269
2022-07-15 15:15	1916102	8.280	-121.996	281.19	18.143	319.774	367.968	0.178	0.239	8.033	18.143	6.862
2022-07-15 15:30	1917002	8.255	-120.597	281.624	18.2	320.747	368.624	0.178	0.240	7.995	18.2	6.46
2022-07-15 15:45	1917902	8.299	-123.177	278.157	18.328	321.193	368.106	0.178	0.239	8.103	18.328	6.411
2022-07-15 16:00	1918802	8.291	-122.74	277.547	18.358	321.503	368.213	0.178	0.239	7.821	18.358	49.082
2022-07-15 16:15	1919702	8.297	-123.105	278.391	18.534	321.966	367.333	0.177	0.239	8.239	18.534	48.74
2022-07-15 16:30	1920602	8.304	-123.558	280.716	18.579	321.917	366.916	0.177	0.238	8.097	18.579	24.218
2022-07-15 16:45	1921502	8.313	-124.052	280.27	18.577	321.627	366.598	0.177	0.238	8.287	18.577	17.261
2022-07-15 17:00	1922402	8.288	-122.645	275.823	18.577	321.912	366.927	0.177	0.239	8.286	18.577	8.263
2022-07-15 17:15	1923302	8.324	-124.638	280.279	18.568	321.957	367.05	0.177	0.239	8.337	18.568	6.845
2022-07-15 17:30	1924202	8.305	-123.563	279.965	18.537	321.776	367.095	0.177	0.239	7.968	18.537	6.444
2022-07-15 17:45	1925102	8.309	-123.792	278.472	18.523	321.794	367.228	0.177	0.239	8.356	18.523	6.095
2022-07-15 18:00	1926002	8.287	-122.55	275.904	18.556	322.751	368.052	0.178	0.239	8.445	18.556	12.557
2022-07-15 18:15	1926902	8.287	-122.59	279.702	18.584	322.89	367.984	0.178	0.239	8.246	18.584	5.825
2022-07-15 18:30	1927802	8.312	-123.994	280.444	18.632	323.305	368.074	0.178	0.239	8.148	18.632	7.119
2022-07-15 18:45	1928703	8.320	-124.414	281.138	18.561	321.826	366.954	0.177	0.239	7.897	18.561	6.458
2022-07-15 19:00	1929603	8.294	-122.96	276.393	18.471	321.082	366.827	0.177	0.238	7.656	18.471	16.496
2022-07-15 19:15	1930503	8.304	-123.494	282.828	18.432	320.84	366.859	0.177	0.238	7.774	18.432	8.601
2022-07-15 19:30	1931403	8.290	-122.657	281.491	18.415	321.066	367.26	0.177	0.239	8.255	18.415	6.008
2022-07-15 19:45	1932303	8.332	-125.072	278.06	18.525	322.573	368.097	0.178	0.239	8.459	18.525	7.284
2022-07-15 20:00	1933203	8.305	-123.577	274.438	18.539	322.327	367.704	0.178	0.239	8.540	18.539	9.917
2022-07-15 20:15	1934103	8.286	-122.533	279.574	18.539	322.37	367.749	0.178	0.239	8.529	18.539	7.15
2022-07-15 20:30	1935003	8.290	-122.788	281.307	18.607	323.495	368.494	0.178	0.240	8.278	18.607	5.531
2022-07-15 20:45	1935903	8.313	-124.047	281.829	18.514	321.839	367.351	0.177	0.239	8.292	18.514	6.081
2022-07-15 21:00	1936803	8.289	-122.666	280.639	18.524	322.398	367.903	0.178	0.239	8.388	18.524	7.044
2022-07-15 21:15	1937703	8.319	-124.347	282.969	18.545	322.822	368.22	0.178	0.239	8.369	18.545	6.728
2022-07-15 21:30	1938603	8.322	-124.562	282.699	18.587	323.582	368.748	0.178	0.240	8.451	18.587	6.589
2022-07-15 21:45	1939503	8.302	-123.436	282.444	18.645	326.284	371.36	0.179	0.241	8.373	18.645	6.036
2022-07-15 22:00	1940403	8.330	-125.039	276.331	18.715	327.489	372.168	0.180	0.242	8.533	18.715	10.619
2022-07-15 22:15	1941303	8.312	-124.044	281.34	18.654	328.11	373.367	0.180	0.243	8.344	18.654	5.646
2022-07-15 22:30	1942203	8.329	-124.981	282.251	18.689	331.017	376.389	0.182	0.245	8.503	18.689	6.065
2022-07-15 22:45	1943103	8.337	-125.42	282.666	18.668	330.893	376.414	0.182	0.245	8.414	18.668	6.462

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-15 23:00	1944003	8.309	-123.849	279.95	18.651	329.902	375.429	0.181	0.244	8.457	18.651	8.092
2022-07-15 23:15	1944903	8.324	-124.688	283.841	18.632	328.617	374.118	0.181	0.243	8.330	18.632	6.414
2022-07-15 23:30	1945803	8.304	-123.577	281.958	18.666	330.314	375.772	0.182	0.244	8.411	18.666	6.179
2022-07-15 23:45	1946703	8.302	-123.432	283.093	18.584	324.966	370.35	0.179	0.241	8.117	18.584	6.239
2022-07-16 00:00	1947603	8.289	-122.709	277.49	18.568	326.31	372.013	0.180	0.242	8.326	18.568	11.7
2022-07-16 00:15	1948503	8.288	-122.633	282.594	18.578	326.505	372.153	0.180	0.242	8.182	18.578	5.928
2022-07-16 00:30	1949403	8.302	-123.394	284.619	18.515	323.732	369.499	0.178	0.240	7.933	18.515	6.048
2022-07-16 00:45	1950303	8.273	-121.808	287.172	18.553	324.793	370.406	0.179	0.241	8.090	18.553	5.483
2022-07-16 01:00	1951203	8.274	-121.851	283.195	18.613	327.952	373.515	0.180	0.243	8.002	18.613	7.512
2022-07-16 01:15	1952103	8.312	-124.006	285.935	18.585	330.192	376.3	0.182	0.245	8.251	18.585	6.175
2022-07-16 01:30	1953003	8.304	-123.529	285.534	18.581	330.51	376.696	0.182	0.245	8.144	18.581	6.221
2022-07-16 01:45	1953903	8.288	-122.607	285.918	18.536	327.223	373.316	0.180	0.243	8.058	18.536	6.997
2022-07-16 02:00	1954803	8.281	-122.223	283.131	18.491	324.843	370.963	0.179	0.241	8.174	18.491	11.495
2022-07-16 02:15	1955703	8.290	-122.721	285.815	18.496	324.904	370.99	0.179	0.241	8.117	18.496	6.11
2022-07-16 02:30	1956603	8.297	-123.124	286.924	18.488	325.121	371.305	0.179	0.241	7.973	18.488	6.366
2022-07-16 02:45	1957503	8.301	-123.327	287.403	18.516	326.542	372.7	0.180	0.242	8.106	18.516	6.277
2022-07-16 03:00	1958403	8.282	-122.297	284.201	18.572	328.736	374.743	0.181	0.244	8.049	18.572	6.261
2022-07-16 03:15	1959303	8.294	-122.995	286.707	18.584	328.814	374.735	0.181	0.244	8.207	18.584	11.918
2022-07-16 03:30	1960203	8.286	-122.535	288.033	18.535	326.58	372.59	0.180	0.242	8.014	18.535	6.308
2022-07-16 03:45	1961103	8.281	-122.223	287.286	18.49	325.238	371.423	0.179	0.241	8.005	18.49	6.259
2022-07-16 04:00	1962003	8.274	-121.82	286.03	18.495	325.888	372.121	0.180	0.242	8.043	18.495	7.696
2022-07-16 04:15	1962903	8.302	-123.41	285.317	18.557	331.063	377.52	0.182	0.245	8.099	18.557	5.882
2022-07-16 04:30	1963803	8.285	-122.483	285.892	18.554	328.889	375.067	0.181	0.244	7.940	18.554	6.449
2022-07-16 04:45	1964703	8.298	-123.177	286.249	18.528	331.114	377.815	0.183	0.246	7.848	18.528	5.882
2022-07-16 05:00	1965603	8.276	-121.915	281.312	18.51	330.779	377.582	0.182	0.245	7.804	18.51	8.358
2022-07-16 05:15	1966503	8.297	-123.096	284.471	18.491	330.421	377.328	0.182	0.245	7.768	18.491	5.695
2022-07-16 05:30	1967403	8.290	-122.724	283.553	18.46	329.271	376.275	0.182	0.245	7.815	18.46	5.981
2022-07-16 05:45	1968303	8.293	-122.857	282.323	18.454	331.334	378.681	0.183	0.246	7.705	18.454	5.994
2022-07-16 06:00	1969203	8.261	-121.019	280.799	18.379	328.232	375.753	0.181	0.244	7.749	18.379	5.856
2022-07-16 06:15	1970103	8.287	-122.521	283.376	18.382	330.81	378.672	0.183	0.246	7.725	18.382	5.825
2022-07-16 06:30	1971003	8.295	-122.938	284.423	18.38	332.055	380.117	0.184	0.247	7.649	18.38	5.571
2022-07-16 06:45	1971903	8.289	-122.623	284.28	18.361	331.124	379.21	0.183	0.246	7.725	18.361	5.733
2022-07-16 07:00	1972803	8.253	-120.566	282.332	18.302	329.233	377.527	0.182	0.245	7.620	18.302	6.098
2022-07-16 07:15	1973703	8.283	-122.237	286.702	18.292	329.048	377.401	0.182	0.245	7.585	18.292	6.018
2022-07-16 07:30	1974603	8.283	-122.244	283.999	18.302	330.333	378.792	0.183	0.246	7.695	18.302	6.841
2022-07-16 07:45	1975503	8.294	-122.857	281.631	18.31	331.257	379.786	0.183	0.247	7.774	18.31	5.821
2022-07-16 08:00	1976403	8.281	-122.128	279.569	18.294	330.754	379.341	0.183	0.247	7.740	18.294	7.125
2022-07-16 08:15	1977303	8.287	-122.437	281.507	18.288	330.99	379.662	0.183	0.247	7.768	18.288	7.047
2022-07-16 08:30	1978203	8.276	-121.851	282.449	18.284	330.353	378.968	0.183	0.246	7.729	18.284	6.303
2022-07-16 08:45	1979103	8.262	-121.026	284.247	18.25	329.098	377.809	0.182	0.246	7.463	18.25	6.955
2022-07-16 09:00	1980003	8.212	-118.208	281.498	18.186	326.166	374.97	0.181	0.244	7.351	18.186	7.19
2022-07-16 09:15	1980903	8.179	-116.324	289.637	18.125	323.613	372.534	0.180	0.242	7.248	18.125	6.482
2022-07-16 09:30	1981803	8.158	-115.092	291.64	18.08	322.9	372.076	0.180	0.242	7.072	18.08	6.475
2022-07-16 09:45	1982703	8.142	-114.219	291.816	18.047	322.939	372.397	0.180	0.242	6.953	18.047	7.327
2022-07-16 10:00	1983603	8.119	-112.91	289.404	17.997	322.835	372.686	0.180	0.242	6.732	17.997	13.993
2022-07-16 10:15	1984503	8.113	-112.543	293.471	17.975	323.182	373.268	0.180	0.243	6.722	17.975	7.11
2022-07-16 10:30	1985403	8.116	-112.679	294.441	17.972	323.627	373.802	0.180	0.243	6.508	17.972	7.382
2022-07-16 10:45	1986303	8.114	-112.581	292.761	17.984	323.505	373.565	0.180	0.243	6.572	17.984	9.661

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-16 11:00	1987203	8.119	-112.879	288.624	18.013	324.874	374.907	0.181	0.244	6.740	18.013	10.269
2022-07-16 11:15	1988103	8.209	-117.974	286.891	18.094	328.026	377.87	0.183	0.246	6.989	18.094	7.904
2022-07-16 11:30	1989003	8.237	-119.6	282.819	18.182	329.435	378.757	0.183	0.246	7.342	18.182	7.395
2022-07-16 11:45	1989903	8.275	-121.751	279.443	18.226	330.571	379.701	0.183	0.247	7.484	18.226	7.157
2022-07-16 12:00	1990803	8.286	-122.414	274.338	18.276	331.87	380.768	0.184	0.247	7.903	18.276	12.752
2022-07-16 12:15	1991703	8.288	-122.538	276.963	18.301	331.957	380.661	0.184	0.247	7.920	18.301	7.047
2022-07-16 12:30	1992603	8.291	-122.681	277.602	18.335	332.502	381.001	0.184	0.248	7.839	18.335	7.202
2022-07-16 12:45	1993503	8.295	-122.952	278.98	18.367	332.996	381.305	0.184	0.248	7.844	18.367	6.649
2022-07-16 13:00	1994403	8.272	-121.646	277.247	18.4	333.414	381.51	0.184	0.248	7.954	18.4	10.777
2022-07-16 13:15	1995303	8.301	-123.298	280.802	18.42	334.141	382.173	0.185	0.248	7.755	18.42	6.88
2022-07-16 13:30	1996203	8.283	-122.328	280.344	18.447	334.283	382.109	0.185	0.248	7.844	18.447	6.3
2022-07-16 13:45	1997103	8.279	-122.097	280.081	18.466	334.454	382.146	0.185	0.248	7.832	18.466	6.67
2022-07-16 14:00	1998003	8.276	-121.944	275.127	18.499	335.035	382.535	0.185	0.249	7.923	18.499	8.202
2022-07-16 14:15	1998903	8.282	-122.285	279.922	18.533	335.291	382.538	0.185	0.249	7.971	18.533	6.534
2022-07-16 14:30	1999803	8.292	-122.871	281.834	18.615	336.377	383.096	0.185	0.249	7.958	18.615	6.471
2022-07-16 14:45	2000703	8.308	-123.851	282.125	18.758	338.053	383.807	0.186	0.249	7.984	18.758	6.685
2022-07-16 15:00	2001603	8.294	-123.136	279.202	18.909	339.051	383.688	0.185	0.249	8.119	18.909	6.671
2022-07-16 15:15	2002503	8.319	-124.562	279.855	19.044	340.064	383.713	0.185	0.249	8.137	19.044	6.265
2022-07-16 15:30	2003403	8.309	-124.052	279.669	19.095	340.528	383.82	0.186	0.249	8.186	19.095	5.68
2022-07-16 15:45	2004303	8.309	-124.047	279.202	19.135	341.129	384.166	0.186	0.250	8.080	19.135	5.207
2022-07-16 16:00	2005203	8.312	-124.264	273.422	19.282	341.93	383.855	0.186	0.250	8.159	19.282	7.218
2022-07-16 16:15	2006103	8.303	-123.875	276.264	19.493	344.177	384.634	0.186	0.250	8.206	19.493	5.989
2022-07-16 16:30	2007003	8.307	-124.3	276.181	19.924	347.182	384.456	0.186	0.250	8.111	19.924	6.227
2022-07-16 16:45	2007903	8.298	-123.913	272.04	20.207	348.406	383.515	0.185	0.249	7.991	20.207	6.167
2022-07-16 17:00	2008803	8.254	-121.396	269.624	20.17	345.316	380.406	0.184	0.247	7.864	20.17	9.416
2022-07-16 17:15	2009703	8.289	-123.448	274.19	20.352	347.968	381.872	0.185	0.248	7.962	20.352	5.817
2022-07-16 17:30	2010603	8.295	-123.947	269.372	20.681	352.329	384.003	0.186	0.250	7.893	20.681	5.623
2022-07-16 17:45	2011503	8.279	-123.029	270.316	20.676	352.567	384.31	0.186	0.250	8.009	20.676	6.434
2022-07-16 18:00	2012403	8.268	-122.485	261.559	20.903	353.91	383.953	0.186	0.250	8.054	20.903	11.195
2022-07-16 18:15	2013303	8.254	-121.787	266.418	21.113	352.979	381.285	0.184	0.248	8.139	21.113	6.55
2022-07-16 18:30	2014203	8.248	-121.317	274.064	20.869	351.186	381.27	0.184	0.248	8.343	20.869	6.15
2022-07-16 18:45	2015103	8.255	-121.691	277.421	20.731	351.509	382.717	0.185	0.249	8.362	20.731	6.678
2022-07-16 19:00	2016003	8.237	-120.68	272.044	20.875	353.138	383.344	0.185	0.249	8.099	20.875	6.191
2022-07-16 19:15	2016903	8.226	-119.998	280.294	20.7	351.479	382.926	0.185	0.249	8.061	20.7	6.44
2022-07-16 19:30	2017803	8.247	-121.138	280.365	20.557	350.518	383.024	0.185	0.249	8.361	20.557	5.906
2022-07-16 19:45	2018703	8.251	-121.36	278.711	20.579	350.864	383.226	0.185	0.249	8.227	20.579	6.331
2022-07-16 20:00	2019603	8.236	-120.451	271.646	20.404	348.024	381.519	0.184	0.248	8.302	20.404	9.454
2022-07-16 20:15	2020503	8.243	-120.857	279.953	20.455	349.175	382.366	0.185	0.249	8.202	20.455	5.862
2022-07-16 20:30	2021403	8.197	-118.229	284.566	20.405	348.503	382.036	0.185	0.248	7.448	20.405	6.383
2022-07-16 20:45	2022303	8.185	-117.538	286.903	20.277	346.706	381.08	0.184	0.248	7.765	20.277	7.259
2022-07-16 21:00	2023203	8.213	-119.097	280.728	20.249	346.07	380.612	0.184	0.247	8.014	20.249	6.615
2022-07-16 21:15	2024103	8.233	-120.258	285.799	20.291	347.228	381.547	0.184	0.248	7.955	20.291	5.459
2022-07-16 21:30	2025003	8.197	-118.186	285.827	20.259	347.043	381.595	0.184	0.248	8.085	20.259	5.919
2022-07-16 21:45	2025903	8.251	-121.248	285.207	20.296	347.819	382.152	0.185	0.248	7.925	20.296	6.032
2022-07-16 22:00	2026803	8.220	-119.488	282.468	20.268	347.328	381.838	0.185	0.248	7.662	20.268	6.79
2022-07-16 22:15	2027703	8.230	-120.046	286.23	20.187	346.313	381.368	0.184	0.248	8.186	20.187	6.242
2022-07-16 22:30	2028603	8.252	-121.326	285.367	20.289	347.733	382.12	0.185	0.248	7.926	20.289	6.058
2022-07-16 22:45	2029503	8.209	-118.876	289.621	20.266	347.379	381.909	0.185	0.248	7.847	20.266	5.652

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-16 23:00	2030403	8.194	-118.02	285.238	20.248	347.192	381.853	0.185	0.248	7.281	20.248	6.237
2022-07-16 23:15	2031303	8.212	-119.04	289.335	20.285	347.889	382.316	0.185	0.249	7.570	20.285	5.94
2022-07-16 23:30	2032203	8.192	-117.862	290.019	20.205	347.023	382.007	0.185	0.248	7.934	20.205	5.833
2022-07-16 23:45	2033103	8.225	-119.777	288.054	20.239	347.815	382.61	0.185	0.249	7.682	20.239	5.683
2022-07-17 00:00	2034003	8.209	-118.871	281.586	20.232	347.49	382.303	0.185	0.248	7.891	20.232	11.84
2022-07-17 00:15	2034903	8.190	-117.774	289.158	20.156	346.544	381.878	0.185	0.248	7.525	20.156	6.061
2022-07-17 00:30	2035803	8.206	-118.663	290.932	20.136	346.653	382.157	0.185	0.248	8.094	20.136	5.46
2022-07-17 00:45	2036703	8.193	-117.91	292.896	20.13	346.779	382.345	0.185	0.249	7.820	20.13	4.892
2022-07-17 01:00	2037603	8.189	-117.667	288.274	20.112	346.891	382.612	0.185	0.249	7.334	20.112	6.13
2022-07-17 01:15	2038503	8.201	-118.32	292.06	20.045	345.899	382.061	0.185	0.248	7.672	20.045	6.377
2022-07-17 01:30	2039403	8.244	-120.761	289.659	20.039	345.844	382.045	0.185	0.248	7.684	20.039	5.847
2022-07-17 01:45	2040303	8.240	-120.509	289.005	20.045	346.576	382.801	0.185	0.249	7.562	20.045	5.484
2022-07-17 02:00	2041203	8.243	-120.702	284.507	20.065	347.03	383.142	0.185	0.249	7.601	20.065	5.836
2022-07-17 02:15	2042103	8.233	-120.156	289.399	20.028	346.662	383.038	0.185	0.249	7.842	20.028	5.484
2022-07-17 02:30	2043003	8.263	-121.815	289.048	19.991	347.153	383.883	0.186	0.250	7.850	19.991	5.823
2022-07-17 02:45	2043903	8.277	-122.578	285.644	19.935	347.12	384.301	0.186	0.250	7.594	19.935	5.644
2022-07-17 03:00	2044803	8.237	-120.246	285.014	19.813	344.266	382.127	0.185	0.248	7.944	19.813	6.165
2022-07-17 03:15	2045703	8.274	-122.337	287.999	19.805	345.52	383.582	0.185	0.249	8.051	19.805	6.549
2022-07-17 03:30	2046603	8.281	-122.743	287.327	19.768	346.387	384.847	0.186	0.250	7.982	19.768	5.925
2022-07-17 03:45	2047503	8.265	-121.82	287.782	19.663	344.494	383.596	0.185	0.249	8.126	19.663	5.93
2022-07-17 04:00	2048403	8.271	-122.087	286.14	19.553	344.165	384.127	0.186	0.250	8.156	19.553	5.8
2022-07-17 04:15	2049303	8.267	-121.825	286.543	19.52	344.161	384.397	0.186	0.250	8.024	19.52	5.563
2022-07-17 04:30	2050203	8.268	-121.896	288.352	19.491	344.286	384.77	0.186	0.250	7.839	19.491	5.512
2022-07-17 04:45	2051103	8.279	-122.478	287.787	19.428	344.006	384.979	0.186	0.250	7.584	19.428	5.488
2022-07-17 05:00	2052003	8.253	-120.964	283.546	19.363	343.405	384.843	0.186	0.250	7.669	19.363	6.589
2022-07-17 05:15	2052903	8.263	-121.51	289.084	19.314	342.848	384.616	0.186	0.250	7.893	19.314	5.34
2022-07-17 05:30	2053803	8.248	-120.664	289.33	19.246	342.269	384.527	0.186	0.250	7.821	19.246	5.686
2022-07-17 05:45	2054703	8.264	-121.548	288.386	19.201	341.945	384.536	0.186	0.250	7.608	19.201	5.543
2022-07-17 06:00	2055603	8.253	-120.924	286.147	19.159	341.982	384.924	0.186	0.250	7.691	19.159	6.323
2022-07-17 06:15	2056503	8.265	-121.534	288.059	19.105	341.368	384.681	0.186	0.250	7.515	19.105	5.626
2022-07-17 06:30	2057403	8.263	-121.427	290.038	19.062	340.904	384.514	0.186	0.250	7.546	19.062	5.75
2022-07-17 06:45	2058303	8.258	-121.152	290.009	19.019	340.68	384.617	0.186	0.250	7.920	19.019	5.821
2022-07-17 07:00	2059203	8.235	-119.812	284.173	18.989	340.676	384.863	0.186	0.250	7.603	18.989	5.666
2022-07-17 07:15	2060103	8.263	-121.4	290.345	18.957	340.698	385.149	0.186	0.250	7.594	18.957	5.516
2022-07-17 07:30	2061003	8.262	-121.291	289.387	18.928	340.558	385.239	0.186	0.250	7.514	18.928	5.426
2022-07-17 07:45	2061903	8.266	-121.555	288.526	18.893	340.324	385.266	0.186	0.250	7.369	18.893	5.663
2022-07-17 08:00	2062803	8.258	-121.038	285.813	18.853	339.698	384.883	0.186	0.250	7.453	18.853	6.22
2022-07-17 08:15	2063703	8.261	-121.236	287.534	18.827	339.371	384.73	0.186	0.250	7.673	18.827	6.017
2022-07-17 08:30	2064603	8.254	-120.785	288.707	18.797	338.853	384.397	0.186	0.250	7.663	18.797	5.759
2022-07-17 08:45	2065503	8.258	-121.005	289.69	18.772	338.744	384.479	0.186	0.250	7.669	18.772	5.533
2022-07-17 09:00	2066403	8.231	-119.495	282.16	18.746	338.403	384.312	0.186	0.250	7.558	18.746	6.403
2022-07-17 09:15	2067303	8.258	-121.04	286.564	18.738	338.644	384.646	0.186	0.250	7.678	18.738	5.573
2022-07-17 09:30	2068203	8.262	-121.219	284.981	18.732	339.057	385.169	0.186	0.250	7.532	18.732	5.472
2022-07-17 09:45	2069103	8.263	-121.315	283.379	18.721	338.975	385.164	0.186	0.250	7.108	18.721	5.738
2022-07-17 10:00	2070003	8.249	-120.466	280.871	18.709	338.888	385.17	0.186	0.250	7.723	18.709	6.677
2022-07-17 10:15	2070903	8.264	-121.348	283.109	18.705	338.862	385.171	0.186	0.250	7.564	18.705	6.911
2022-07-17 10:30	2071803	8.251	-120.583	282.11	18.687	337.946	384.28	0.186	0.250	7.088	18.687	6.791
2022-07-17 10:45	2072703	8.228	-119.295	284.461	18.632	336.355	382.932	0.185	0.249	7.477	18.632	7.147

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-17 11:00	2073603	8.217	-118.663	280.325	18.646	336.894	383.424	0.185	0.249	7.508	18.646	7.463
2022-07-17 11:15	2074503	8.241	-120.049	286.886	18.657	337.289	383.786	0.185	0.249	7.437	18.657	6.619
2022-07-17 11:30	2075403	8.221	-118.895	287.153	18.665	336.928	383.311	0.185	0.249	7.341	18.665	7.972
2022-07-17 11:45	2076303	8.209	-118.217	289.125	18.658	336.81	383.23	0.185	0.249	7.355	18.658	8.207
2022-07-17 12:00	2077203	8.223	-119.009	283.143	18.715	337.769	383.844	0.186	0.249	7.435	18.715	12.78
2022-07-17 12:15	2078103	8.257	-120.986	285.56	18.782	338.694	384.338	0.186	0.250	7.565	18.782	7.798
2022-07-17 12:30	2079003	8.268	-121.617	285.868	18.83	339.264	384.589	0.186	0.250	7.565	18.83	7.312
2022-07-17 12:45	2079903	8.256	-120.964	285.572	18.862	339.185	384.228	0.186	0.250	7.750	18.862	8.514
2022-07-17 13:00	2080803	8.239	-120.022	280.441	18.888	339.574	384.453	0.186	0.250	7.869	18.888	8.255
2022-07-17 13:15	2081703	8.266	-121.522	286.261	18.917	339.815	384.486	0.186	0.250	7.652	18.917	7.201
2022-07-17 13:30	2082603	8.266	-121.57	285.093	18.949	340.179	384.63	0.186	0.250	7.763	18.949	8.254
2022-07-17 13:45	2083503	8.251	-120.687	285.274	18.957	339.723	384.054	0.186	0.250	7.560	18.957	10.038
2022-07-17 14:00	2084403	8.233	-119.71	283.994	18.963	339.748	384.032	0.186	0.250	7.769	18.963	15.7
2022-07-17 14:15	2085303	8.268	-121.717	286.741	19.027	340.654	384.523	0.186	0.250	7.869	19.027	7.566
2022-07-17 14:30	2086203	8.276	-122.206	287.081	19.115	341.359	384.587	0.186	0.250	7.933	19.115	7.386
2022-07-17 14:45	2087103	8.275	-122.116	288.085	19.143	341.627	384.659	0.186	0.250	7.865	19.143	7.305
2022-07-17 15:00	2088003	8.254	-120.947	284.135	19.151	341.807	384.792	0.186	0.250	8.013	19.151	8.338
2022-07-17 15:15	2088903	8.275	-122.139	287.573	19.178	342.06	384.854	0.186	0.250	8.017	19.178	7.933
2022-07-17 15:30	2089803	8.279	-122.423	286.507	19.265	342.658	384.812	0.186	0.250	8.060	19.265	7.705
2022-07-17 15:45	2090703	8.288	-123.007	282.943	19.421	343.514	384.486	0.186	0.250	8.108	19.421	7.755
2022-07-17 16:00	2091603	8.273	-122.175	276.86	19.5	344.774	385.247	0.186	0.250	8.184	19.5	9.11
2022-07-17 16:15	2092503	8.293	-123.329	282.497	19.59	345.529	385.349	0.186	0.250	8.101	19.59	6.703
2022-07-17 16:30	2093403	8.288	-123.084	284.793	19.604	345.683	385.406	0.186	0.251	7.985	19.604	6.942
2022-07-17 16:45	2094303	8.289	-123.134	286.316	19.613	345.781	385.437	0.186	0.251	7.934	19.613	7.491
2022-07-17 17:00	2095203	8.277	-122.559	280.782	19.897	347.92	385.494	0.186	0.251	8.255	19.897	7.093
2022-07-17 17:15	2096103	8.294	-123.591	284.147	19.979	348.425	385.383	0.186	0.250	8.144	19.979	6.801
2022-07-17 17:30	2097003	8.296	-123.78	283.205	20.248	350.399	385.374	0.186	0.250	8.219	20.248	6.785
2022-07-17 17:45	2097903	8.294	-123.777	280.151	20.445	351.917	385.45	0.186	0.251	8.334	20.445	6.268
2022-07-17 18:00	2098803	8.285	-123.308	277.456	20.515	352.543	385.574	0.186	0.251	8.365	20.515	7.139
2022-07-17 18:15	2099703	8.295	-123.827	280.892	20.521	352.385	385.349	0.186	0.250	8.297	20.521	6.735
2022-07-17 18:30	2100603	8.293	-123.88	279.752	20.862	355.609	386.124	0.187	0.251	8.435	20.862	6.353
2022-07-17 18:45	2101503	8.292	-123.863	280.046	20.901	355.609	385.819	0.187	0.251	8.154	20.901	6.699
2022-07-17 19:00	2102403	8.264	-122.266	274.986	20.998	356.462	385.967	0.187	0.251	8.135	20.998	6.722
2022-07-17 19:15	2103303	8.284	-123.522	277.776	21.165	357.423	385.673	0.187	0.251	8.150	21.165	7.145
2022-07-17 19:30	2104203	8.279	-123.243	278.517	21.193	357.435	385.46	0.186	0.251	8.280	21.193	7.066
2022-07-17 19:45	2105103	8.278	-123.227	278.722	21.275	358.195	385.63	0.187	0.251	8.389	21.275	6.929
2022-07-17 20:00	2106003	8.258	-122.07	272.862	21.302	358.823	386.095	0.187	0.251	8.437	21.302	10.485
2022-07-17 20:15	2106903	8.274	-122.988	280.375	21.269	358.257	385.743	0.187	0.251	8.118	21.269	7.503
2022-07-17 20:30	2107803	8.269	-122.719	283.119	21.274	358.582	386.058	0.187	0.251	8.188	21.274	7.454
2022-07-17 20:45	2108703	8.260	-122.225	283.128	21.327	358.658	385.719	0.187	0.251	7.916	21.327	7.621
2022-07-17 21:00	2109603	8.236	-120.919	276.093	21.469	359.779	385.796	0.187	0.251	8.174	21.469	7.273
2022-07-17 21:15	2110503	8.262	-122.414	280.337	21.577	361.24	386.508	0.187	0.251	7.979	21.577	6.6
2022-07-17 21:30	2111403	8.259	-122.287	278.78	21.655	361.825	386.523	0.187	0.251	7.667	21.655	7.088
2022-07-17 21:45	2112303	8.257	-122.197	277.7	21.702	362.507	386.879	0.187	0.251	7.484	21.702	5.463
2022-07-17 22:00	2113203	8.220	-120.018	278.098	21.601	361.605	386.711	0.187	0.251	7.936	21.601	7.735
2022-07-17 22:15	2114103	8.213	-119.631	285.196	21.617	361.845	386.842	0.187	0.251	7.807	21.617	6.196
2022-07-17 22:30	2115003	8.225	-120.325	284.335	21.588	361.856	387.084	0.187	0.252	7.722	21.588	6.262
2022-07-17 22:45	2115903	8.229	-120.544	283.777	21.587	362.064	387.314	0.187	0.252	7.878	21.587	5.972

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-17 23:00	2116803	8.217	-119.87	274.121	21.601	362.106	387.25	0.187	0.252	7.677	21.601	10.676
2022-07-17 23:15	2117703	8.247	-121.591	278.374	21.629	362.852	387.826	0.188	0.252	7.551	21.629	5.46
2022-07-17 23:30	2118603	8.199	-118.883	278.753	21.644	362.71	387.552	0.187	0.252	7.552	21.644	5.43
2022-07-17 23:45	2119503	8.263	-122.495	277.085	21.68	363.324	387.923	0.188	0.252	7.624	21.68	6.165
2022-07-18 00:00	2120403	8.219	-119.994	272.509	21.676	363.521	388.162	0.188	0.252	7.489	21.676	19.245
2022-07-18 00:15	2121303	8.222	-120.12	280.446	21.589	362.647	387.922	0.188	0.252	7.952	21.589	5.139
2022-07-18 00:30	2122203	8.220	-120.008	281.686	21.573	362.32	387.697	0.188	0.252	7.795	21.573	5.341
2022-07-18 00:45	2123103	8.218	-119.915	285.613	21.515	361.961	387.776	0.188	0.252	7.725	21.515	5.622
2022-07-18 01:00	2124003	8.206	-119.176	280.673	21.44	361.099	387.441	0.187	0.252	7.845	21.44	5.633
2022-07-18 01:15	2124903	8.187	-118.067	286.268	21.398	360.281	386.901	0.187	0.251	7.750	21.398	5.591
2022-07-18 01:30	2125803	8.185	-117.955	286.86	21.381	360.331	387.085	0.187	0.252	7.552	21.381	5.588
2022-07-18 01:45	2126703	8.194	-118.47	286.342	21.364	360.001	386.868	0.187	0.251	7.646	21.364	5.077
2022-07-18 02:00	2127603	8.217	-119.765	279.371	21.301	359.813	387.166	0.187	0.252	7.881	21.301	12.918
2022-07-18 02:15	2128503	8.223	-120.06	285.61	21.244	359.099	386.851	0.187	0.251	7.840	21.244	6.71
2022-07-18 02:30	2129403	8.218	-119.762	287.925	21.204	359.059	387.127	0.187	0.252	7.933	21.204	5.229
2022-07-18 02:45	2130303	8.214	-119.5	290.255	21.135	358.029	386.564	0.187	0.251	7.597	21.135	5.556
2022-07-18 03:00	2131203	8.206	-119.016	287.463	21.046	357.18	386.359	0.187	0.251	7.872	21.046	5.992
2022-07-18 03:15	2132103	8.199	-118.606	290.674	20.981	356.267	385.889	0.187	0.251	7.824	20.981	5.915
2022-07-18 03:30	2133003	8.197	-118.487	290.105	20.954	356.709	386.58	0.187	0.251	7.538	20.954	5.453
2022-07-18 03:45	2133903	8.215	-119.46	288.08	20.898	356.309	386.598	0.187	0.251	7.410	20.898	5.008
2022-07-18 04:00	2134803	8.220	-119.717	282.768	20.815	355.259	386.124	0.187	0.251	7.557	20.815	6.924
2022-07-18 04:15	2135703	8.171	-116.882	290.651	20.753	354.594	385.896	0.187	0.251	6.998	20.753	6.261
2022-07-18 04:30	2136603	8.200	-118.518	291.926	20.685	354.166	385.977	0.187	0.251	7.306	20.685	5.574
2022-07-18 04:45	2137503	8.199	-118.423	291.657	20.625	353.627	385.869	0.187	0.251	7.160	20.625	5.439
2022-07-18 05:00	2138403	8.178	-117.207	280.978	20.541	352.898	385.751	0.187	0.251	7.243	20.541	5.963
2022-07-18 05:15	2139303	8.188	-117.764	289.449	20.492	352.6	385.817	0.187	0.251	7.307	20.492	5.387
2022-07-18 05:30	2140203	8.190	-117.841	289.456	20.433	352.29	385.953	0.187	0.251	7.420	20.433	5.659
2022-07-18 05:45	2141103	8.173	-116.878	288.727	20.372	351.855	385.976	0.187	0.251	6.808	20.372	5.872
2022-07-18 06:00	2142003	8.195	-118.065	280.52	20.296	350.968	385.611	0.186	0.251	7.217	20.296	6.763
2022-07-18 06:15	2142903	8.179	-117.188	288.605	20.253	350.582	385.541	0.186	0.251	7.092	20.253	5.658
2022-07-18 06:30	2143803	8.188	-117.66	290.443	20.208	350.124	385.397	0.186	0.251	6.884	20.208	5.47
2022-07-18 06:45	2144703	8.196	-118.108	291.187	20.161	349.677	385.288	0.186	0.250	7.026	20.161	5.41
2022-07-18 07:00	2145603	8.186	-117.493	287.611	20.102	349.19	385.228	0.186	0.250	6.998	20.102	5.671
2022-07-18 07:15	2146503	8.191	-117.745	291.924	20.066	349.19	385.518	0.186	0.251	7.018	20.066	5.575
2022-07-18 07:30	2147403	8.193	-117.869	291.259	20.022	348.818	385.472	0.186	0.251	6.794	20.022	5.514
2022-07-18 07:45	2148303	8.195	-117.986	290.467	19.985	348.478	385.393	0.186	0.251	6.972	19.985	4.981
2022-07-18 08:00	2149203	8.208	-118.69	285.277	19.949	348.08	385.246	0.186	0.250	7.160	19.949	7.245
2022-07-18 08:15	2150103	8.207	-118.601	288.946	19.932	347.878	385.157	0.186	0.250	7.085	19.932	5.509
2022-07-18 08:30	2151003	8.219	-119.312	290.276	19.907	347.671	385.133	0.186	0.250	6.844	19.907	5.51
2022-07-18 08:45	2151903	8.200	-118.222	291.864	19.881	347.48	385.14	0.186	0.250	6.879	19.881	5.915
2022-07-18 09:00	2152803	8.209	-118.704	286.333	19.856	347.268	385.108	0.186	0.250	7.011	19.856	8.699
2022-07-18 09:15	2153703	8.208	-118.618	290.002	19.841	347.514	385.498	0.186	0.251	7.251	19.841	5.419
2022-07-18 09:30	2154603	8.205	-118.444	289.625	19.818	347.046	385.171	0.186	0.250	6.823	19.818	5.422
2022-07-18 09:45	2155503	8.219	-119.247	287.956	19.786	346.778	385.134	0.186	0.250	7.318	19.786	5.535
2022-07-18 10:00	2156403	8.199	-118.093	282.315	19.692	346.358	385.434	0.186	0.251	7.445	19.692	8.166
2022-07-18 10:15	2157303	8.191	-117.602	290.834	19.595	345.677	385.472	0.186	0.251	7.368	19.595	5.575
2022-07-18 10:30	2158203	8.207	-118.437	292.505	19.537	344.836	385.013	0.186	0.250	7.539	19.537	5.653
2022-07-18 10:45	2159103	8.205	-118.341	295.269	19.456	344.454	385.249	0.186	0.250	7.824	19.456	5.685

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-18 11:00	2160003	8.178	-116.77	291.585	19.418	344.105	385.168	0.186	0.250	7.600	19.418	5.757
2022-07-18 11:15	2160903	8.179	-116.837	296.325	19.387	343.762	385.045	0.186	0.250	7.680	19.387	5.237
2022-07-18 11:30	2161803	8.184	-117.109	296.01	19.398	343.879	385.082	0.186	0.250	7.722	19.398	5.826
2022-07-18 11:45	2162703	8.210	-118.637	291.628	19.519	344.451	384.728	0.186	0.250	7.800	19.519	5.936
2022-07-18 12:00	2163603	8.225	-119.495	284.638	19.619	345.336	384.893	0.186	0.250	7.786	19.619	6.148
2022-07-18 12:15	2164503	8.232	-119.896	285.317	19.612	345.401	385.026	0.186	0.250	7.681	19.612	7.782
2022-07-18 12:30	2165403	8.221	-119.264	286.779	19.626	345.696	385.236	0.186	0.250	7.748	19.626	8.561
2022-07-18 12:45	2166303	8.224	-119.464	287.859	19.656	345.968	385.298	0.186	0.250	7.605	19.656	8.133
2022-07-18 13:00	2167203	8.242	-120.561	276.989	19.84	347.02	384.963	0.186	0.250	7.873	19.84	7.578
2022-07-18 13:15	2168103	8.271	-122.311	277.127	20.052	348.448	384.812	0.186	0.250	8.141	20.052	6.895
2022-07-18 13:30	2169003	8.276	-122.654	272.674	20.178	349.445	384.898	0.186	0.250	8.187	20.178	6.359
2022-07-18 13:45	2169903	8.274	-122.55	272.869	20.215	349.306	384.444	0.186	0.250	8.080	20.215	8.007
2022-07-18 14:00	2170803	8.265	-122.025	271.057	20.171	348.313	383.707	0.186	0.249	8.191	20.171	7.757
2022-07-18 14:15	2171703	8.259	-121.646	280.461	20.086	347.515	383.511	0.185	0.249	8.194	20.086	7.496
2022-07-18 14:30	2172603	8.261	-121.722	281.259	20.101	347.721	383.618	0.185	0.249	8.102	20.101	6.38
2022-07-18 14:45	2173503	8.252	-121.26	283.782	20.113	348.09	383.926	0.186	0.250	8.125	20.113	6.483
2022-07-18 15:00	2174403	8.236	-120.351	282.547	20.173	348.627	384.029	0.186	0.250	8.182	20.173	6.706
2022-07-18 15:15	2175303	8.276	-122.707	282.804	20.385	349.832	383.647	0.186	0.249	8.340	20.385	6.871
2022-07-18 15:30	2176203	8.281	-123.062	280.477	20.496	350.521	383.512	0.185	0.249	8.420	20.496	6.312
2022-07-18 15:45	2177103	8.286	-123.42	277.609	20.687	351.848	383.434	0.185	0.249	8.407	20.687	7.157
2022-07-18 16:00	2178003	8.285	-123.396	267.374	20.772	352.546	383.52	0.185	0.249	8.519	20.772	9.241
2022-07-18 16:15	2178903	8.292	-123.875	274.438	20.928	353.709	383.536	0.185	0.249	8.490	20.928	6.581
2022-07-18 16:30	2179803	8.304	-124.559	274.541	20.968	353.4	382.888	0.185	0.249	8.365	20.968	6.203
2022-07-18 16:45	2180703	8.293	-124.011	277.077	21.125	355.319	383.721	0.186	0.249	8.462	21.125	5.763
2022-07-18 17:00	2181603	8.273	-122.852	273.403	21.089	354.655	383.287	0.185	0.249	8.289	21.089	6.009
2022-07-18 17:15	2182503	8.298	-124.331	276.515	21.23	355.788	383.398	0.185	0.249	8.456	21.23	6.237
2022-07-18 17:30	2183403	8.299	-124.331	276.078	21.14	355.156	383.422	0.185	0.249	8.545	21.14	6.284
2022-07-18 17:45	2184303	8.301	-124.383	277.726	20.991	353.701	383.03	0.185	0.249	8.492	20.991	5.804
2022-07-18 18:00	2185203	8.290	-123.818	275.227	21.047	354.281	383.214	0.185	0.249	8.538	21.047	6.508
2022-07-18 18:15	2186103	8.299	-124.209	279.898	20.859	352.205	382.457	0.185	0.249	8.513	20.859	5.748
2022-07-18 18:30	2187003	8.295	-123.954	283.002	20.805	352.125	382.8	0.185	0.249	8.416	20.805	5.626
2022-07-18 18:45	2187903	8.290	-123.746	284.151	20.905	353.311	383.288	0.185	0.249	8.410	20.905	6.085
2022-07-18 19:00	2188803	8.268	-122.471	281.011	20.937	353.584	383.329	0.185	0.249	8.386	20.937	6.483
2022-07-18 19:15	2189703	8.293	-123.959	284.256	21.001	353.978	383.255	0.185	0.249	8.456	21.001	5.877
2022-07-18 19:30	2190603	8.294	-123.973	282.78	20.946	353.372	383.033	0.185	0.249	8.409	20.946	6.65
2022-07-18 19:45	2191503	8.284	-123.334	283.777	20.807	352.323	382.996	0.185	0.249	8.260	20.807	5.855
2022-07-18 20:00	2192403	8.262	-122.032	277.535	20.585	350.507	382.785	0.185	0.249	8.316	20.585	10.699
2022-07-18 20:15	2193303	8.263	-122.054	285.763	20.51	350.163	383.011	0.185	0.249	8.164	20.51	6.097
2022-07-18 20:30	2194203	8.261	-121.913	288.047	20.482	350.276	383.36	0.185	0.249	7.936	20.482	5.779
2022-07-18 20:45	2195103	8.258	-121.734	290	20.495	350.295	383.273	0.185	0.249	8.133	20.495	6.793
2022-07-18 21:00	2196003	8.235	-120.463	284.752	20.498	350.286	383.24	0.185	0.249	8.129	20.498	5.649
2022-07-18 21:15	2196903	8.260	-121.896	290.493	20.533	350.571	383.271	0.185	0.249	8.140	20.533	5.69
2022-07-18 21:30	2197803	8.270	-122.454	287.813	20.593	351.003	383.264	0.185	0.249	8.023	20.593	5.977
2022-07-18 21:45	2198703	8.271	-122.545	285.591	20.609	350.958	383.091	0.185	0.249	7.943	20.609	7.721
2022-07-18 22:00	2199603	8.263	-122.082	283.572	20.596	350.886	383.114	0.185	0.249	7.945	20.596	17.432
2022-07-18 22:15	2200503	8.267	-122.29	288.691	20.531	350.179	382.861	0.185	0.249	8.133	20.531	5.697
2022-07-18 22:30	2201403	8.272	-122.557	288.979	20.571	350.982	383.413	0.185	0.249	8.019	20.571	5.595
2022-07-18 22:45	2202303	8.270	-122.445	288.235	20.601	350.813	382.993	0.185	0.249	7.667	20.601	5.799

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-18 23:00	2203203	8.241	-120.78	285.792	20.57	350.671	383.088	0.185	0.249	7.854	20.57	5.909
2022-07-18 23:15	2204103	8.260	-121.896	289.387	20.547	350.65	383.247	0.185	0.249	7.916	20.547	5.836
2022-07-18 23:30	2205003	8.255	-121.555	289.613	20.495	350.35	383.331	0.185	0.249	7.887	20.495	5.772
2022-07-18 23:45	2205903	8.245	-121.019	290.941	20.479	350.276	383.381	0.185	0.249	7.831	20.479	7.436
2022-07-19 00:00	2206803	8.245	-121.017	287.632	20.477	350.471	383.607	0.186	0.249	7.928	20.477	5.558
2022-07-19 00:15	2207703	8.260	-121.834	289.168	20.476	350.499	383.649	0.186	0.249	7.662	20.476	4.934
2022-07-19 00:30	2208603	8.242	-120.84	291.261	20.459	350.507	383.798	0.186	0.249	7.467	20.459	4.302
2022-07-19 00:45	2209503	8.262	-121.98	288.46	20.481	350.601	383.72	0.186	0.249	7.719	20.481	4.899
2022-07-19 01:00	2210403	8.249	-121.212	284.166	20.506	350.721	383.652	0.186	0.249	7.690	20.506	6.311
2022-07-19 01:15	2211303	8.272	-122.564	288.297	20.514	350.745	383.612	0.186	0.249	7.733	20.514	4.955
2022-07-19 01:30	2212203	8.275	-122.716	287.465	20.519	351.033	383.886	0.186	0.250	7.733	20.519	4.842
2022-07-19 01:45	2213103	8.280	-122.993	286.655	20.526	350.96	383.754	0.186	0.249	7.653	20.526	4.356
2022-07-19 02:00	2214003	8.242	-120.864	282.013	20.542	351.227	383.914	0.186	0.250	7.636	20.542	6.588
2022-07-19 02:15	2214903	8.255	-121.62	286.435	20.56	351.137	383.673	0.186	0.249	7.504	20.56	4.648
2022-07-19 02:30	2215803	8.276	-122.817	287.525	20.573	351.119	383.554	0.185	0.249	7.455	20.573	4.592
2022-07-19 02:45	2216703	8.276	-122.809	288.181	20.583	351.343	383.717	0.186	0.249	7.438	20.583	4.406
2022-07-19 03:00	2217603	8.232	-120.327	283.25	20.593	351.69	384.018	0.186	0.250	7.425	20.593	4.375
2022-07-19 03:15	2218503	8.252	-121.46	287.816	20.603	351.402	383.618	0.186	0.249	7.581	20.603	4.728
2022-07-19 03:30	2219403	8.259	-121.849	286.428	20.623	351.479	383.544	0.185	0.249	7.826	20.623	4.812
2022-07-19 03:45	2220303	8.260	-121.937	286.142	20.635	351.576	383.555	0.185	0.249	7.856	20.635	4.676
2022-07-19 04:00	2221203	8.265	-122.192	281.443	20.637	351.614	383.577	0.185	0.249	7.891	20.637	6.621
2022-07-19 04:15	2222103	8.248	-121.226	286.457	20.628	351.599	383.638	0.186	0.249	7.854	20.628	4.643
2022-07-19 04:30	2223003	8.244	-120.997	288.772	20.61	351.611	383.791	0.186	0.249	7.526	20.61	4.221
2022-07-19 04:45	2223903	8.244	-121.007	290.879	20.582	351.39	383.772	0.186	0.249	6.999	20.582	4.585
2022-07-19 05:00	2224803	8.210	-119.033	288.042	20.552	351.131	383.732	0.186	0.249	6.769	20.552	4.917
2022-07-19 05:15	2225703	8.235	-120.435	290.977	20.507	350.66	383.578	0.185	0.249	7.470	20.507	4.972
2022-07-19 05:30	2226603	8.231	-120.22	290.114	20.472	350.384	383.553	0.185	0.249	7.513	20.472	4.669
2022-07-19 05:45	2227503	8.239	-120.647	290.076	20.452	350.676	384.04	0.186	0.250	7.339	20.452	4.985
2022-07-19 06:00	2228403	8.244	-120.902	281.457	20.395	350.006	383.758	0.186	0.249	7.388	20.395	7.958
2022-07-19 06:15	2229303	8.256	-121.558	285.823	20.363	349.664	383.644	0.186	0.249	7.505	20.363	5
2022-07-19 06:30	2230203	8.239	-120.592	289.599	20.306	349.318	383.717	0.186	0.249	7.476	20.306	5.129
2022-07-19 06:45	2231103	8.225	-119.791	289.969	20.272	349.191	383.852	0.186	0.250	7.357	20.272	4.705
2022-07-19 07:00	2232003	8.196	-118.105	288.984	20.238	348.959	383.878	0.186	0.250	7.159	20.238	5.351
2022-07-19 07:15	2232903	8.225	-119.739	292.598	20.191	348.501	383.747	0.186	0.249	7.371	20.191	4.738
2022-07-19 07:30	2233803	8.248	-121.05	289.335	20.156	348.187	383.685	0.186	0.249	7.463	20.156	4.629
2022-07-19 07:45	2234703	8.251	-121.219	286.433	20.127	347.797	383.487	0.185	0.249	7.481	20.127	4.574
2022-07-19 08:00	2235603	8.244	-120.773	279.445	20.088	347.624	383.615	0.185	0.249	7.727	20.088	7.107
2022-07-19 08:15	2236503	8.260	-121.672	284.154	20.067	347.419	383.559	0.185	0.249	7.603	20.067	4.797
2022-07-19 08:30	2237403	8.258	-121.565	285.362	20.041	347.243	383.572	0.185	0.249	7.568	20.041	4.846
2022-07-19 08:45	2238303	8.226	-119.727	287.616	19.994	347.223	383.932	0.186	0.250	7.510	19.994	4.672
2022-07-19 09:00	2239203	8.162	-116.057	286.061	19.884	347.001	384.582	0.186	0.250	7.491	19.884	6.815
2022-07-19 09:15	2240103	8.156	-115.654	292.057	19.808	346.718	384.885	0.186	0.250	7.300	19.808	5.485
2022-07-19 09:30	2241003	8.157	-115.733	291.897	19.74	346.6	385.309	0.186	0.250	7.279	19.74	5.316
2022-07-19 09:45	2241903	8.164	-116.091	291.373	19.717	345.91	384.73	0.186	0.250	7.142	19.717	5.954
2022-07-19 10:00	2242803	8.157	-115.693	289.451	19.678	345.485	384.575	0.186	0.250	7.238	19.678	6.844
2022-07-19 10:15	2243703	8.162	-115.948	272.483	19.646	345.238	384.563	0.186	0.250	7.209	19.646	5.395
2022-07-19 10:30	2244603	8.180	-116.982	278.627	19.639	345.075	384.44	0.186	0.250	7.116	19.639	7.06
2022-07-19 10:45	2245503	8.193	-117.691	280.408	19.663	345.165	384.345	0.186	0.250	7.391	19.663	5.076

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-19 11:00	2246403	8.162	-115.933	279.373	19.649	345.239	384.541	0.186	0.250	7.261	19.649	6.864
2022-07-19 11:15	2247303	8.178	-116.889	285.854	19.663	345.314	384.513	0.186	0.250	7.410	19.663	5.634
2022-07-19 11:30	2248203	8.218	-119.171	282.456	19.72	345.271	383.998	0.186	0.250	7.607	19.72	6.856
2022-07-19 11:45	2249103	8.225	-119.576	281.662	19.76	345.494	383.914	0.186	0.250	7.671	19.76	4.876
2022-07-19 12:00	2250003	8.221	-119.359	276.837	19.758	345.629	384.088	0.186	0.250	7.724	19.758	7.673
2022-07-19 12:15	2250903	8.247	-120.807	279.543	19.787	345.668	383.891	0.186	0.250	7.731	19.787	5.369
2022-07-19 12:30	2251803	8.259	-121.51	278.866	19.843	345.963	383.76	0.186	0.249	7.814	19.843	5.716
2022-07-19 12:45	2252703	8.257	-121.393	280.53	19.859	346.141	383.834	0.186	0.249	7.737	19.859	5.317
2022-07-19 13:00	2253603	8.228	-119.743	277.204	19.837	346.071	383.936	0.186	0.250	7.730	19.837	6.419
2022-07-19 13:15	2254503	8.238	-120.318	281.04	19.85	346.169	383.931	0.186	0.250	7.794	19.85	5.849
2022-07-19 13:30	2255403	8.246	-120.79	278.417	19.885	346.443	383.95	0.186	0.250	7.861	19.885	5.161
2022-07-19 13:45	2256303	8.256	-121.357	278.331	19.909	346.415	383.732	0.186	0.249	7.906	19.909	5.365
2022-07-19 14:00	2257203	8.255	-121.317	274.684	19.907	346.49	383.826	0.186	0.249	7.895	19.907	16.882
2022-07-19 14:15	2258103	8.265	-121.889	279.221	19.953	346.72	383.711	0.186	0.249	7.926	19.953	5.181
2022-07-19 14:30	2259003	8.273	-122.411	278.861	20	347.125	383.773	0.186	0.249	8.019	20	5.58
2022-07-19 14:45	2259903	8.281	-122.859	278.227	20.075	347.662	383.761	0.186	0.249	8.015	20.075	6.003
2022-07-19 15:00	2260803	8.275	-122.573	270.526	20.11	347.681	383.502	0.185	0.249	8.128	20.11	5.526
2022-07-19 15:15	2261703	8.296	-123.777	274.758	20.154	348.001	383.499	0.185	0.249	8.144	20.154	4.891
2022-07-19 15:30	2262603	8.298	-123.873	273.582	20.189	348.262	383.499	0.185	0.249	8.069	20.189	6.124
2022-07-19 15:45	2263503	8.302	-124.156	272.831	20.278	348.937	383.525	0.185	0.249	8.197	20.278	5.337
2022-07-19 16:00	2264403	8.297	-123.878	268.215	20.318	349.291	383.595	0.185	0.249	8.209	20.318	6.743
2022-07-19 16:15	2265303	8.307	-124.478	272.304	20.378	349.618	383.469	0.185	0.249	8.202	20.378	5.284
2022-07-19 16:30	2266203	8.308	-124.571	273.16	20.421	349.929	383.467	0.185	0.249	8.241	20.421	5.056
2022-07-19 16:45	2267103	8.313	-124.872	272.309	20.521	350.726	383.534	0.185	0.249	8.244	20.521	4.907
2022-07-19 17:00	2268003	8.301	-124.202	268.78	20.546	350.797	383.414	0.185	0.249	8.308	20.546	7.33
2022-07-19 17:15	2268903	8.309	-124.686	273.823	20.548	350.864	383.475	0.185	0.249	8.263	20.548	5.636
2022-07-19 17:30	2269803	8.312	-124.822	272.268	20.594	349.704	381.841	0.185	0.248	8.250	20.594	5.304
2022-07-19 17:45	2270703	8.306	-124.533	271.603	20.615	351.4	383.521	0.185	0.249	8.205	20.615	4.994
2022-07-19 18:00	2271603	8.302	-124.307	267.345	20.648	351.677	383.556	0.185	0.249	8.273	20.648	6.735
2022-07-19 18:15	2272503	8.298	-124.04	274.548	20.61	351.388	383.549	0.185	0.249	8.196	20.61	5.715
2022-07-19 18:30	2273403	8.302	-124.295	275.64	20.631	351.581	383.591	0.185	0.249	8.122	20.631	5.069
2022-07-19 18:45	2274303	8.298	-124.052	278.327	20.627	351.516	383.552	0.185	0.249	8.133	20.627	4.814
2022-07-19 19:00	2275203	8.276	-122.79	272.633	20.602	351.425	383.652	0.186	0.249	8.089	20.602	6.322
2022-07-19 19:15	2276103	8.296	-123.928	276.109	20.613	351.443	383.583	0.185	0.249	8.170	20.613	5.695
2022-07-19 19:30	2277003	8.297	-124.013	276.365	20.632	351.655	383.668	0.186	0.249	8.207	20.632	5.778
2022-07-19 19:45	2277903	8.292	-123.706	276.148	20.603	351.576	383.809	0.186	0.249	8.150	20.603	4.65
2022-07-19 20:00	2278803	8.265	-122.125	272.016	20.529	351.071	383.849	0.186	0.250	8.059	20.529	35.661
2022-07-19 20:15	2279703	8.273	-122.602	280.308	20.505	350.903	383.861	0.186	0.250	7.861	20.505	6.461
2022-07-19 20:30	2280603	8.273	-122.614	281.975	20.507	350.971	383.916	0.186	0.250	7.917	20.507	5.621
2022-07-19 20:45	2281503	8.262	-121.949	283.574	20.471	350.805	384.026	0.186	0.250	7.759	20.471	5.377
2022-07-19 21:00	2282403	8.237	-120.523	279.724	20.437	350.584	384.054	0.186	0.250	7.612	20.437	5.055
2022-07-19 21:15	2283303	8.260	-121.82	284.878	20.424	350.395	383.955	0.186	0.250	7.735	20.424	4.846
2022-07-19 21:30	2284203	8.251	-121.281	284.569	20.405	350.549	384.277	0.186	0.250	7.704	20.405	6.483
2022-07-19 21:45	2285103	8.240	-120.668	284.037	20.366	350.126	384.128	0.186	0.250	7.615	20.366	4.957
2022-07-19 22:00	2286003	8.251	-121.255	277.752	20.319	349.822	384.167	0.186	0.250	7.596	20.319	10.146
2022-07-19 22:15	2286903	8.256	-121.531	283.4	20.296	349.527	384.031	0.186	0.250	7.562	20.296	4.449
2022-07-19 22:30	2287803	8.261	-121.83	284.642	20.255	349.233	384.041	0.186	0.250	7.633	20.255	4.683
2022-07-19 22:45	2288703	8.249	-121.105	287.046	20.211	348.898	384.024	0.186	0.250	7.523	20.211	4.368

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-19 23:00	2289603	8.249	-121.083	282.461	20.149	348.333	383.906	0.186	0.250	7.621	20.149	4.382
2022-07-19 23:15	2290503	8.264	-121.915	287.363	20.11	348.124	383.99	0.186	0.250	7.565	20.11	4.992
2022-07-19 23:30	2291403	8.237	-120.389	287.255	20.064	347.768	383.966	0.186	0.250	7.590	20.064	4.365
2022-07-19 23:45	2292303	8.242	-120.656	285.987	20.021	347.636	384.169	0.186	0.250	7.398	20.021	4.198
2022-07-20 00:00	2293203	8.243	-120.695	281.667	19.967	347.145	384.064	0.186	0.250	7.388	19.967	6.066
2022-07-20 00:15	2294103	8.230	-119.927	287.966	19.936	346.944	384.091	0.186	0.250	7.379	19.936	4.132
2022-07-20 00:30	2295003	8.247	-120.852	289.926	19.893	346.563	384.023	0.186	0.250	7.266	19.893	5.072
2022-07-20 00:45	2295903	8.247	-120.871	290.665	19.855	346.225	383.953	0.186	0.250	7.643	19.855	4.3
2022-07-20 01:00	2296803	8.242	-120.549	287.42	19.808	345.863	383.934	0.186	0.250	7.582	19.808	4.476
2022-07-20 01:15	2297703	8.259	-121.515	289.239	19.785	345.639	383.875	0.186	0.250	7.666	19.785	4.447
2022-07-20 01:30	2298603	8.260	-121.567	285.968	19.745	345.324	383.85	0.186	0.250	7.531	19.745	4.187
2022-07-20 01:45	2299503	8.252	-121.09	287.453	19.727	345.217	383.88	0.186	0.250	7.643	19.727	4.535
2022-07-20 02:00	2300403	8.250	-120.943	285.815	19.694	344.989	383.898	0.186	0.250	7.563	19.694	9.829
2022-07-20 02:15	2301303	8.231	-119.851	290.87	19.672	344.943	384.024	0.186	0.250	7.386	19.672	4.323
2022-07-20 02:30	2302203	8.231	-119.867	292.532	19.652	344.937	384.176	0.186	0.250	7.322	19.652	3.715
2022-07-20 02:45	2303103	8.216	-118.985	293.054	19.623	344.938	384.418	0.186	0.250	7.039	19.623	3.351
2022-07-20 03:00	2304003	8.191	-117.574	290.176	19.577	344.422	384.223	0.186	0.250	6.776	19.577	3.883
2022-07-20 03:15	2304903	8.210	-118.642	291.917	19.544	344.361	384.424	0.186	0.250	6.816	19.544	4.979
2022-07-20 03:30	2305803	8.199	-118.012	287.976	19.516	344.254	384.532	0.186	0.250	***6.495***	19.516	5.051
2022-07-20 03:45	2306703	8.221	-119.259	283.019	19.508	344.408	384.772	0.186	0.250	6.711	19.508	7.502
2022-07-20 04:00	2307603	8.216	-118.933	274.786	19.482	343.872	384.385	0.186	0.250	***6.496***	19.482	13.747
2022-07-20 04:15	2308503	8.231	-119.767	282.447	19.456	343.737	384.446	0.186	0.250	6.938	19.456	5.771
2022-07-20 04:30	2309403	8.225	-119.443	285.145	19.432	343.617	384.512	0.186	0.250	6.884	19.432	3.475
2022-07-20 04:45	2310303	8.220	-119.162	286.085	19.423	343.885	384.883	0.186	0.250	***6.199***	19.423	3.733
2022-07-20 05:00	2311203	8.174	-116.541	282.046	19.384	343.843	385.158	0.186	0.250	***5.257***	19.384	8.801
2022-07-20 05:15	2312103	8.211	-118.589	287.706	19.343	343.164	384.734	0.186	0.250	***6.140***	19.343	4.317
2022-07-20 05:30	2313003	8.225	-119.412	285.255	19.309	342.693	384.49	0.186	0.250	6.822	19.309	7.342
2022-07-20 05:45	2313903	8.209	-118.446	284.337	19.282	342.64	384.648	0.186	0.250	***6.326***	19.282	3.787
2022-07-20 06:00	2314803	8.212	-118.63	280.303	19.244	342.157	384.418	0.186	0.250	6.631	19.244	20.838
2022-07-20 06:15	2315703	8.191	-117.419	284.595	19.228	341.895	384.258	0.186	0.250	6.583	19.228	4.471
2022-07-20 06:30	2316603	8.204	-118.129	287.661	19.206	341.765	384.296	0.186	0.250	***5.929***	19.206	3.904
2022-07-20 06:45	2317503	8.208	-118.363	290.548	19.157	341.224	384.09	0.186	0.250	***6.446***	19.157	4.081
2022-07-20 07:00	2318403	8.188	-117.199	285.942	19.122	340.979	384.098	0.186	0.250	***6.113***	19.122	3.83
2022-07-20 07:15	2319303	8.193	-117.519	290.944	19.101	341.078	384.388	0.186	0.250	6.559	19.101	3.767
2022-07-20 07:30	2320203	8.197	-117.733	287.224	19.083	341.033	384.484	0.186	0.250	6.717	19.083	3.846
2022-07-20 07:45	2321103	8.196	-117.636	285.491	19.069	340.737	384.265	0.186	0.250	6.799	19.069	3.952
2022-07-20 08:00	2322003	8.213	-118.606	280.809	19.04	340.534	384.28	0.186	0.250	6.857	19.04	32.943
2022-07-20 08:15	2322903	8.201	-117.893	286.028	19.043	340.735	384.479	0.186	0.250	6.761	19.043	3.704
2022-07-20 08:30	2323803	8.185	-117.03	288.762	19.036	340.811	384.628	0.186	0.250	***5.502***	19.036	3.501
2022-07-20 08:45	2324703	8.162	-115.716	290.56	19.021	340.774	384.707	0.186	0.250	***5.968***	19.021	3.681
2022-07-20 09:00	2325603	8.161	-115.652	287.32	19.02	341.126	385.115	0.186	0.250	***5.897***	19.02	8.077
2022-07-20 09:15	2326503	8.173	-116.32	289.621	19.02	342.497	386.662	0.187	0.251	***5.736***	19.02	4.31
2022-07-20 09:30	2327403	8.150	-115.047	288.908	19.005	342.436	386.715	0.187	0.251	***5.648***	19.005	3.539
2022-07-20 09:45	2328303	8.143	-114.632	287.043	18.998	340.961	385.11	0.186	0.250	***5.928***	18.998	3.684
2022-07-20 10:00	2329203	8.195	-117.54	283.51	18.973	340.142	384.392	0.186	0.250	6.615	18.973	8.302
2022-07-20 10:15	2330103	8.190	-117.271	284.216	18.965	340.124	384.433	0.186	0.250	7.072	18.965	5.455
2022-07-20 10:30	2331003	8.198	-117.705	283.365	18.964	340.057	384.37	0.186	0.250	***6.446***	18.964	8.348
2022-07-20 10:45	2331903	8.200	-117.831	283.09	18.963	340.037	384.352	0.186	0.250	6.690	18.963	5.587

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-20 11:00	2332803	8.170	-116.119	272.59	18.975	340.214	384.454	0.186	0.250	6.625	18.975	21.393
2022-07-20 11:15	2333703	8.201	-117.884	278.799	18.978	339.991	384.183	0.186	0.250	6.871	18.978	7.448
2022-07-20 11:30	2334603	8.210	-118.437	278.284	19.017	340.378	384.292	0.186	0.250	6.999	19.017	18.4
2022-07-20 11:45	2335503	8.215	-118.713	276.057	19.087	340.817	384.208	0.186	0.250	7.199	19.087	8.034
2022-07-20 12:00	2336403	8.170	-116.239	269.372	19.145	341.487	384.487	0.186	0.250	6.953	19.145	158.352
2022-07-20 12:15	2337303	8.205	-118.217	273.294	19.276	342.537	384.585	0.186	0.250	7.009	19.276	6.516
2022-07-20 12:30	2338203	8.228	-119.6	272.333	19.397	343.516	384.686	0.186	0.250	7.139	19.397	8.709
2022-07-20 12:45	2339103	8.231	-119.777	273.661	19.426	343.598	384.538	0.186	0.250	7.051	19.426	5.117
2022-07-20 13:00	2340003	8.208	-118.487	273.182	19.49	344.076	384.548	0.186	0.250	7.170	19.49	6.873
2022-07-20 13:15	2340903	8.236	-120.127	275.387	19.607	344.978	384.597	0.186	0.250	7.422	19.607	5.317
2022-07-20 13:30	2341803	8.249	-120.857	274.15	19.641	345.05	384.392	0.186	0.250	7.576	19.641	5.665
2022-07-20 13:45	2342703	8.249	-120.89	274.762	19.678	345.336	384.414	0.186	0.250	7.624	19.678	6.741
2022-07-20 14:00	2343603	8.219	-119.2	270.726	19.695	345.747	384.734	0.186	0.250	7.440	19.695	16.736
2022-07-20 14:15	2344503	8.244	-120.618	276.231	19.751	346.177	384.754	0.186	0.250	7.216	19.751	8.684
2022-07-20 14:30	2345403	8.250	-120.978	277.824	19.794	346.317	384.557	0.186	0.250	6.998	19.794	7.976
2022-07-20 14:45	2346303	8.247	-120.802	279.927	19.757	345.851	384.34	0.186	0.250	6.958	19.757	6.771
2022-07-20 15:00	2347203	8.218	-119.183	268.888	19.765	345.219	383.57	0.185	0.249	7.337	19.765	7.7
2022-07-20 15:15	2348103	8.232	-119.991	276.775	19.798	346.868	385.138	0.186	0.250	7.418	19.798	7.85
2022-07-20 15:30	2349003	8.224	-119.55	277.24	19.816	346.855	384.976	0.186	0.250	7.481	19.816	8.509
2022-07-20 15:45	2349903	8.230	-119.863	276.405	19.809	346.878	385.056	0.186	0.250	7.139	19.809	7.597
2022-07-20 16:00	2350803	8.223	-119.548	262.14	19.942	347.999	385.213	0.186	0.250	7.553	19.942	18.843
2022-07-20 16:15	2351703	8.159	-115.964	268.316	20.046	349.008	385.487	0.186	0.251	***4.463***	20.046	17.435
2022-07-20 16:30	2352603	8.254	-121.374	270.976	20.119	348.996	384.875	0.186	0.250	7.543	20.119	7.517
2022-07-20 16:45	2353503	8.246	-120.971	274.183	20.278	350.428	385.17	0.186	0.250	7.842	20.278	7.399
2022-07-20 17:00	2354403	8.238	-120.585	261.73	20.418	351.17	384.849	0.186	0.250	7.876	20.418	41.217
2022-07-20 17:15	2355303	8.245	-121.062	273.811	20.591	352.793	385.233	0.186	0.250	8.009	20.591	4.977
2022-07-20 17:30	2356203	8.236	-120.726	268.594	20.993	356.354	385.884	0.187	0.251	7.629	20.993	15.257
2022-07-20 17:45	2357103	8.262	-122.268	260.784	21.268	358.407	385.919	0.187	0.251	7.093	21.268	8.246
2022-07-20 18:00	2358003	8.262	-122.34	251.49	21.394	359.395	385.978	0.187	0.251	7.818	21.394	15.342
2022-07-20 18:15	2358903	8.287	-123.715	262.093	21.273	357.711	385.129	0.186	0.250	8.376	21.273	5.93
2022-07-20 18:30	2359803	8.287	-123.725	265.931	21.265	357.722	385.201	0.186	0.250	8.339	21.265	5.249
2022-07-20 18:45	2360703	8.267	-122.592	267.827	21.308	358.285	385.463	0.186	0.251	8.127	21.308	5.083
2022-07-20 19:00	2361603	8.231	-120.478	251.855	21.149	357.309	385.677	0.187	0.251	8.121	21.149	10.644
2022-07-20 19:15	2362503	8.263	-122.361	267.636	21.27	358.492	385.993	0.187	0.251	8.081	21.27	5.618
2022-07-20 19:30	2363403	8.257	-122.03	267.865	21.299	358.562	385.835	0.187	0.251	7.878	21.299	5.392
2022-07-20 19:45	2364303	8.262	-122.237	267.987	21.194	357.426	385.447	0.186	0.251	8.141	21.194	5.894
2022-07-20 20:00	2365203	8.237	-120.783	262.667	21.045	356.567	385.703	0.187	0.251	7.991	21.045	12.047
2022-07-20 20:15	2366103	8.229	-120.313	277.693	21.032	356.373	385.597	0.187	0.251	7.864	21.032	4.979
2022-07-20 20:30	2367003	8.225	-120.077	279.805	21.001	356.362	385.835	0.187	0.251	7.922	21.001	4.919
2022-07-20 20:45	2367903	8.220	-119.846	281.09	21.096	357.36	386.158	0.187	0.251	7.870	21.096	4.559
2022-07-20 21:00	2368803	8.199	-118.67	265.795	21.204	358.408	386.427	0.187	0.251	7.603	21.204	9.282
2022-07-20 21:15	2369703	8.181	-117.683	277.139	21.26	358.718	386.315	0.187	0.251	7.545	21.26	4.51
2022-07-20 21:30	2370603	8.200	-118.771	275.194	21.337	359.814	386.882	0.187	0.251	7.376	21.337	3.785
2022-07-20 21:45	2371503	8.148	-115.857	273.577	21.416	360.565	387.063	0.187	0.252	7.273	21.416	3.732
2022-07-20 22:00	2372403	8.170	-117.137	265.767	21.46	361.382	387.585	0.188	0.252	7.108	21.46	13.915
2022-07-20 22:15	2373303	8.163	-116.723	275.916	21.476	361.851	387.961	0.188	0.252	7.112	21.476	3.943
2022-07-20 22:30	2374203	8.148	-115.855	279.247	21.468	361.912	388.092	0.188	0.252	6.924	21.468	3.922
2022-07-20 22:45	2375103	8.163	-116.711	277.824	21.453	361.487	387.757	0.188	0.252	6.963	21.453	4.221

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-20 23:00	2376003	8.191	-118.282	268.501	21.416	361.103	387.641	0.188	0.252	6.780	21.416	7.492
2022-07-20 23:15	2376903	8.201	-118.835	273.868	21.374	360.01	386.796	0.187	0.251	7.128	21.374	4.33
2022-07-20 23:30	2377803	8.193	-118.389	273.124	21.329	360.641	387.831	0.188	0.252	7.293	21.329	4.529
2022-07-20 23:45	2378703	8.191	-118.282	271.458	21.29	360.491	387.981	0.188	0.252	7.057	21.29	5.046
2022-07-21 00:00	2379603	8.211	-119.4	263.828	21.232	359.79	387.688	0.188	0.252	6.845	21.232	11.321
2022-07-21 00:15	2380503	8.204	-118.964	269.453	21.19	359.498	387.714	0.188	0.252	7.171	21.19	5.588
2022-07-21 00:30	2381403	8.164	-116.673	274.09	21.134	359.406	388.061	0.188	0.252	6.800	21.134	5.049
2022-07-21 00:45	2382303	8.175	-117.252	276.391	21.096	358.959	387.879	0.188	0.252	6.673	21.096	4.192
2022-07-21 01:00	2383203	8.190	-118.113	269.028	21.038	358.095	387.411	0.187	0.252	6.929	21.038	5.381
2022-07-21 01:15	2384103	8.193	-118.265	280.561	21.009	357.947	387.487	0.187	0.252	7.034	21.009	4.3
2022-07-21 01:30	2385003	8.190	-118.053	278.415	20.924	357.516	387.696	0.188	0.252	6.831	20.924	4.021
2022-07-21 01:45	2385903	8.173	-117.073	277.704	20.884	357.085	387.549	0.187	0.252	6.693	20.884	4.672
2022-07-21 02:00	2386803	8.198	-118.47	262.608	20.823	356.627	387.546	0.187	0.252	6.840	20.823	11.287
2022-07-21 02:15	2387703	8.192	-118.096	276.62	20.764	356.161	387.513	0.187	0.252	6.886	20.764	4.687
2022-07-21 02:30	2388603	8.193	-118.153	279.454	20.709	355.645	387.392	0.187	0.252	6.837	20.709	4.007
2022-07-21 02:45	2389503	8.193	-118.129	282.184	20.645	355.13	387.351	0.187	0.252	7.098	20.645	3.926
2022-07-21 03:00	2390403	8.186	-117.695	267.703	20.563	354.131	386.924	0.187	0.252	6.944	20.563	4.638
2022-07-21 03:15	2391303	8.165	-116.491	281.76	20.51	353.801	386.989	0.187	0.252	6.558	20.51	3.9
2022-07-21 03:30	2392203	8.162	-116.289	280.182	20.451	353.26	386.871	0.187	0.251	6.810	20.451	3.925
2022-07-21 03:45	2393103	8.164	-116.346	280.964	20.382	352.668	386.78	0.187	0.251	6.865	20.382	4.283
2022-07-21 04:00	2394003	8.191	-117.853	273.811	20.328	352.493	387.026	0.187	0.252	6.869	20.328	5.848
2022-07-21 04:15	2394903	8.180	-117.235	282.599	20.267	351.7	386.657	0.187	0.251	6.816	20.267	5.406
2022-07-21 04:30	2395803	8.176	-116.987	284.49	20.198	351.339	386.821	0.187	0.251	6.598	20.198	4.193
2022-07-21 04:45	2396703	8.178	-117.075	286.125	20.148	350.792	386.62	0.187	0.251	6.762	20.148	4.084
2022-07-21 05:00	2397603	8.171	-116.63	277.347	20.08	350.062	386.372	0.187	0.251	6.527	20.08	4.194
2022-07-21 05:15	2398503	8.181	-117.19	285.544	20.028	349.896	386.612	0.187	0.251	6.694	20.028	3.853
2022-07-21 05:30	2399403	8.190	-117.686	284.437	19.976	349.554	386.659	0.187	0.251	6.701	19.976	3.678
2022-07-21 05:45	2400303	8.187	-117.474	282.549	19.929	349.19	386.64	0.187	0.251	6.597	19.929	3.664
2022-07-21 06:00	2401203	8.181	-117.114	274.514	19.866	348.339	386.207	0.187	0.251	6.764	19.866	29.75
2022-07-21 06:15	2402103	8.172	-116.599	283.651	19.833	348.249	386.379	0.187	0.251	6.696	19.833	3.878
2022-07-21 06:30	2403003	8.156	-115.697	286.974	19.799	348.13	386.523	0.187	0.251	6.555	19.799	3.595
2022-07-21 06:45	2403903	8.164	-116.131	287.861	19.748	347.504	386.246	0.187	0.251	6.651	19.748	3.892
2022-07-21 07:00	2404803	8.184	-117.197	272.593	19.685	346.77	385.946	0.187	0.251	6.767	19.685	5.479
2022-07-21 07:15	2405703	8.155	-115.547	285.722	19.658	346.738	386.138	0.187	0.251	6.709	19.658	3.775
2022-07-21 07:30	2406603	8.169	-116.332	285.579	19.64	346.779	386.334	0.187	0.251	6.658	19.64	3.71
2022-07-21 07:45	2407503	8.175	-116.692	284.437	19.62	346.662	386.364	0.187	0.251	6.637	19.62	3.593
2022-07-21 08:00	2408403	8.176	-116.754	271.2	19.608	346.351	386.12	0.187	0.251	6.840	19.608	4.812
2022-07-21 08:15	2409303	8.172	-116.51	280.902	19.616	346.746	386.493	0.187	0.251	6.696	19.616	3.59
2022-07-21 08:30	2410203	8.157	-115.654	282.296	19.626	346.636	386.288	0.187	0.251	***6.216***	19.626	3.58
2022-07-21 08:45	2411103	8.147	-115.108	282.847	19.632	347.023	386.668	0.187	0.251	***5.858***	19.632	3.663
2022-07-21 09:00	2412003	8.121	-113.649	273.864	19.63	348.299	388.102	0.188	0.252	***5.675***	19.63	5.489
2022-07-21 09:15	2412903	8.183	-117.114	278.913	19.635	348.019	387.756	0.188	0.252	***5.914***	19.635	4.069
2022-07-21 09:30	2413803	8.209	-118.611	276.798	19.644	347.18	386.743	0.187	0.251	***6.492***	19.644	3.673
2022-07-21 09:45	2414703	8.235	-120.115	275.511	19.651	346.75	386.204	0.187	0.251	6.779	19.651	3.955
2022-07-21 10:00	2415603	8.216	-119.002	276.567	19.628	346.05	385.616	0.186	0.251	7.259	19.628	4.446
2022-07-21 10:15	2416503	8.196	-117.831	281.407	19.583	345.598	385.483	0.186	0.251	7.204	19.583	4.541
2022-07-21 10:30	2417403	8.197	-117.919	282.895	19.566	345.282	385.267	0.186	0.250	7.195	19.566	4.617
2022-07-21 10:45	2418303	8.193	-117.676	285.37	19.55	345.095	385.189	0.186	0.250	7.102	19.55	4.19

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-21 11:00	2419203	8.177	-116.749	277.347	19.55	345.051	385.143	0.186	0.250	7.082	19.55	6.011
2022-07-21 11:15	2420103	8.187	-117.328	284.869	19.551	345.2	385.297	0.186	0.250	6.976	19.551	4.113
2022-07-21 11:30	2421003	8.198	-117.958	282.995	19.577	345.637	385.572	0.186	0.251	7.129	19.577	4.583
2022-07-21 11:45	2421903	8.218	-119.14	280.275	19.625	346.035	385.621	0.186	0.251	7.384	19.625	4.083
2022-07-21 12:00	2422803	8.233	-119.965	267.245	19.662	346.471	385.809	0.187	0.251	7.502	19.662	5.344
2022-07-21 12:15	2423703	8.245	-120.654	273.74	19.671	346.553	385.825	0.187	0.251	7.472	19.671	4.173
2022-07-21 12:30	2424603	8.244	-120.592	274.474	19.691	346.777	385.912	0.187	0.251	7.400	19.691	4.211
2022-07-21 12:45	2425503	8.249	-120.904	275.685	19.737	347.172	385.974	0.187	0.251	7.310	19.737	4.334
2022-07-21 13:00	2426403	8.233	-120.058	271.475	19.83	347.841	385.956	0.187	0.251	7.439	19.83	4.563
2022-07-21 13:15	2427303	8.254	-121.284	274.398	19.93	348.52	385.889	0.187	0.251	7.703	19.93	4.532
2022-07-21 13:30	2428203	8.255	-121.362	271.272	20.022	349.255	385.95	0.187	0.251	7.756	20.022	4.536
2022-07-21 13:45	2429103	8.248	-121.002	271.31	20.13	350.314	386.243	0.187	0.251	7.688	20.13	4.638
2022-07-21 14:00	2430003	8.237	-120.468	264.768	20.24	351.344	386.478	0.187	0.251	7.667	20.24	12.424
2022-07-21 14:15	2430903	8.226	-119.841	274.352	20.328	351.995	386.486	0.187	0.251	7.477	20.328	4.433
2022-07-21 14:30	2431803	8.249	-121.255	273.208	20.506	353.584	386.787	0.187	0.251	7.634	20.506	4.479
2022-07-21 14:45	2432703	8.251	-121.422	265.569	20.663	354.941	386.997	0.187	0.252	7.645	20.663	4.389
2022-07-21 15:00	2433603	8.235	-120.602	253.548	20.913	356.995	387.22	0.187	0.252	7.601	20.913	6.706
2022-07-21 15:15	2434503	8.259	-121.994	262.582	21.009	357.621	387.134	0.187	0.252	7.585	21.009	4.476
2022-07-21 15:30	2435403	8.264	-122.452	254.661	21.353	361.197	388.242	0.188	0.252	7.339	21.353	3.95
2022-07-21 15:45	2436303	8.250	-121.722	250.098	21.547	360.601	386.067	0.187	0.251	***5.447***	21.547	3.996
2022-07-21 16:00	2437203	8.257	-122.213	247.783	21.778	363.887	387.749	0.188	0.252	7.843	21.778	6.762
2022-07-21 16:15	2438103	8.275	-123.301	255.651	21.914	364.849	387.704	0.188	0.252	8.042	21.914	4.31
2022-07-21 16:30	2439003	8.314	-125.282	260.281	21.404	359.161	385.648	0.187	0.251	8.519	21.404	4.172
2022-07-21 16:45	2439903	8.307	-124.943	267.445	21.527	360.703	386.332	0.187	0.251	8.484	21.527	4.209
2022-07-21 17:00	2440803	8.269	-122.871	251.772	21.758	362.915	386.874	0.187	0.251	8.231	21.758	5.056
2022-07-21 17:15	2441703	8.304	-124.874	264.022	21.721	362.001	386.187	0.187	0.251	8.621	21.721	4.507
2022-07-21 17:30	2442603	8.267	-122.893	259.217	22.022	365.645	387.696	0.188	0.252	8.021	22.022	4.429
2022-07-21 17:45	2443503	8.271	-123.167	257.346	22.191	368.035	388.903	0.188	0.253	7.946	22.191	4.368
2022-07-21 18:00	2444403	8.229	-120.811	251.247	22.267	368.811	389.12	0.188	0.253	7.587	22.267	4.355
2022-07-21 18:15	2445303	8.243	-121.641	255.968	22.322	369.37	389.281	0.188	0.253	7.030	22.322	3.959
2022-07-21 18:30	2446203	8.243	-121.658	261.168	22.336	369.46	389.268	0.188	0.253	6.990	22.336	4.335
2022-07-21 18:45	2447103	8.219	-120.296	264.746	22.329	369.441	389.305	0.188	0.253	7.100	22.329	4.387
2022-07-21 19:00	2448003	8.232	-121.019	250.966	22.342	369.438	389.197	0.188	0.253	7.626	22.342	5.639
2022-07-21 19:15	2448903	8.255	-122.328	258.095	22.306	368.924	388.936	0.188	0.253	7.660	22.306	4.253
2022-07-21 19:30	2449803	8.238	-121.331	260.813	22.252	368.587	389.007	0.188	0.253	7.752	22.252	4.825
2022-07-21 19:45	2450703	8.215	-120.029	263.244	22.221	368.523	389.18	0.188	0.253	7.429	22.221	4.636
2022-07-21 20:00	2451603	8.239	-121.336	258.531	22.145	367.584	388.787	0.188	0.253	7.840	22.145	5.379
2022-07-21 20:15	2452503	8.254	-122.154	261.301	22.071	367.331	389.101	0.188	0.253	7.870	22.071	9.701
2022-07-21 20:30	2453403	8.249	-121.877	258.991	21.998	366.601	388.904	0.188	0.253	7.549	21.998	7.003
2022-07-21 20:45	2454303	8.248	-121.768	260.512	21.938	366.266	389.018	0.188	0.253	7.481	21.938	5.902
2022-07-21 21:00	2455203	8.216	-119.91	254.947	21.864	365.711	389.01	0.188	0.253	7.262	21.864	7.415
2022-07-21 21:15	2456103	8.188	-118.325	266.604	21.837	365.437	388.931	0.188	0.253	7.550	21.837	5.096
2022-07-21 21:30	2457003	8.186	-118.182	268.416	21.775	364.806	388.755	0.188	0.253	7.301	21.775	4.502
2022-07-21 21:45	2457903	8.169	-117.166	268.628	21.725	365.073	389.43	0.188	0.253	6.940	21.725	4.504
2022-07-21 22:00	2458803	8.210	-119.486	265.717	21.677	364.249	388.934	0.188	0.253	7.101	21.677	6.04
2022-07-21 22:15	2459703	8.174	-117.438	275.139	21.629	364.15	389.212	0.188	0.253	7.289	21.629	4.713
2022-07-21 22:30	2460603	8.173	-117.347	276.875	21.583	363.69	389.084	0.188	0.253	7.048	21.583	15.752
2022-07-21 22:45	2461503	8.201	-118.923	277.032	21.526	363.043	388.843	0.188	0.253	7.139	21.526	4.277

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-21 23:00	2462403	8.187	-118.12	262.794	21.451	362.609	388.973	0.188	0.253	6.877	21.451	6.114
2022-07-21 23:15	2463303	8.173	-117.278	275.637	21.391	362.384	389.21	0.188	0.253	6.773	21.391	4.718
2022-07-21 23:30	2464203	8.153	-116.117	275.449	21.331	362.26	389.562	0.188	0.253	6.769	21.331	4.546
2022-07-21 23:45	2465103	8.139	-115.314	275.401	21.269	361.602	389.346	0.188	0.253	6.535	21.269	4.959
2022-07-22 00:00	2466003	8.149	-115.821	264.596	21.174	361.103	389.572	0.188	0.253	6.579	21.174	19.774
2022-07-22 00:15	2466903	8.098	-112.913	275.799	21.126	360.655	389.473	0.188	0.253	6.555	21.126	4.257
2022-07-22 00:30	2467803	8.123	-114.307	278.224	21.066	359.867	389.108	0.188	0.253	6.627	21.066	5.555
2022-07-22 00:45	2468703	8.158	-116.274	278.682	20.997	359.466	389.223	0.188	0.253	6.606	20.997	4.185
2022-07-22 01:00	2469603	8.150	-115.769	269.124	20.916	358.368	388.686	0.188	0.253	6.870	20.916	8.213
2022-07-22 01:15	2470503	8.162	-116.427	279.361	20.863	358.403	389.155	0.188	0.253	6.838	20.863	4.382
2022-07-22 01:30	2471403	8.195	-118.303	279.364	20.804	357.556	388.71	0.188	0.253	7.088	20.804	4.617
2022-07-22 01:45	2472303	8.164	-116.484	279.254	20.73	357.11	388.818	0.188	0.253	6.825	20.73	4.651
2022-07-22 02:00	2473203	8.195	-118.253	274.39	20.645	355.876	388.166	0.188	0.252	6.694	20.645	5.082
2022-07-22 02:15	2474103	8.171	-116.839	281.936	20.583	355.631	388.396	0.188	0.252	6.806	20.583	4.531
2022-07-22 02:30	2475003	8.184	-117.574	283.443	20.512	354.612	387.863	0.188	0.252	6.881	20.512	4.679
2022-07-22 02:45	2475903	8.181	-117.354	285.997	20.451	354.374	388.09	0.188	0.252	6.952	20.451	4.7
2022-07-22 03:00	2476803	8.180	-117.285	282.125	20.354	353.238	387.637	0.187	0.252	6.745	20.354	4.526
2022-07-22 03:15	2477703	8.170	-116.661	287.604	20.294	353.027	387.892	0.188	0.252	6.687	20.294	4.554
2022-07-22 03:30	2478603	8.165	-116.329	283.841	20.21	352.221	387.689	0.188	0.252	6.889	20.21	4.463
2022-07-22 03:45	2479503	8.149	-115.442	282.871	20.146	351.909	387.869	0.188	0.252	***6.488***	20.146	7.136
2022-07-22 04:00	2480403	8.185	-117.426	270.409	20.08	351.234	387.665	0.187	0.252	6.878	20.08	9.091
2022-07-22 04:15	2481303	8.162	-116.088	282.976	20.02	350.863	387.746	0.188	0.252	6.844	20.02	4.238
2022-07-22 04:30	2482203	8.142	-114.97	284.816	19.958	350.258	387.582	0.187	0.252	6.791	19.958	4.309
2022-07-22 04:45	2483103	8.164	-116.162	285.236	19.885	349.909	387.793	0.188	0.252	6.546	19.885	3.919
2022-07-22 05:00	2484003	8.153	-115.495	275.13	19.794	348.961	387.492	0.187	0.252	6.701	19.794	5.633
2022-07-22 05:15	2484903	8.129	-114.16	286.664	19.755	348.585	387.398	0.187	0.252	6.558	19.755	4.9
2022-07-22 05:30	2485803	8.128	-114.059	286.648	19.714	348.307	387.42	0.187	0.252	***6.432***	19.714	4.822
2022-07-22 05:45	2486703	8.138	-114.601	283.62	19.664	348.115	387.62	0.187	0.252	6.605	19.664	4.636
2022-07-22 06:00	2487603	8.153	-115.442	275.506	19.63	347.729	387.472	0.187	0.252	6.718	19.63	14.124
2022-07-22 06:15	2488503	8.121	-113.604	287.284	19.594	347.753	387.797	0.188	0.252	6.770	19.594	5.269
2022-07-22 06:30	2489403	8.119	-113.513	289.411	19.553	347.519	387.871	0.188	0.252	***6.338***	19.553	5.767
2022-07-22 06:45	2490303	8.104	-112.61	291.509	19.52	347.325	387.928	0.188	0.252	***6.017***	19.52	4.874
2022-07-22 07:00	2491203	8.105	-112.679	284.139	19.473	346.47	387.359	0.187	0.252	***6.112***	19.473	6.457
2022-07-22 07:15	2492103	8.106	-112.712	291.261	19.44	346.503	387.67	0.187	0.252	***6.366***	19.44	7.368
2022-07-22 07:30	2493003	8.084	-111.434	290.598	19.411	346.351	387.741	0.188	0.252	***6.380***	19.411	4.943
2022-07-22 07:45	2493903	8.083	-111.361	287.215	19.37	345.852	387.52	0.187	0.252	6.515	19.37	5.044
2022-07-22 08:00	2494803	8.110	-112.882	280.134	19.346	345.711	387.566	0.187	0.252	***6.280***	19.346	6.243
2022-07-22 08:15	2495703	8.133	-114.188	284.197	19.339	345.932	387.873	0.188	0.252	***6.262***	19.339	4.879
2022-07-22 08:30	2496603	8.131	-114.081	286.497	19.34	345.951	387.884	0.188	0.252	***6.442***	19.34	4.34
2022-07-22 08:45	2497503	8.133	-114.207	288.498	19.333	345.982	387.98	0.188	0.252	***5.960***	19.333	4.569
2022-07-22 09:00	2498403	8.097	-112.128	281.085	19.31	345.684	387.834	0.188	0.252	***5.799***	19.31	6.013
2022-07-22 09:15	2499303	8.107	-112.7	289.094	19.296	345.923	388.217	0.188	0.252	***5.832***	19.296	4.79
2022-07-22 09:30	2500203	8.114	-113.089	285.389	19.287	346.187	388.589	0.188	0.253	***5.668***	19.287	4.565
2022-07-22 09:45	2501103	8.090	-111.768	285.844	19.274	345.868	388.336	0.188	0.252	***5.970***	19.274	4.802
2022-07-22 10:00	2502003	8.119	-113.375	278.293	19.261	345.23	387.728	0.187	0.252	***5.818***	19.261	5.48
2022-07-22 10:15	2502903	8.123	-113.602	282.737	19.252	345.51	388.122	0.188	0.252	***5.628***	19.252	4.646
2022-07-22 10:30	2503803	8.055	-109.735	285.017	19.241	345.55	388.255	0.188	0.252	***4.270***	19.241	4.615
2022-07-22 10:45	2504703	8.154	-115.347	280.463	19.256	345.544	388.128	0.188	0.252	***4.593***	19.256	4.731

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-22 11:00	2505603	8.128	-113.871	271.336	19.287	346.37	388.79	0.188	0.253	***5.450***	19.287	5.067
2022-07-22 11:15	2506503	8.168	-116.172	276.312	19.32	347.189	389.44	0.188	0.253	***5.557***	19.32	4.915
2022-07-22 11:30	2507403	8.162	-115.821	274.893	19.34	347.206	389.29	0.188	0.253	***5.917***	19.34	4.42
2022-07-22 11:45	2508303	8.165	-116.043	273.108	19.376	347.666	389.509	0.188	0.253	***6.287***	19.376	4.263
2022-07-22 12:00	2509203	8.141	-114.689	268.213	19.456	347.218	388.337	0.188	0.252	***6.093***	19.456	6.097
2022-07-22 12:15	2510103	8.168	-116.262	276.484	19.523	347.475	388.068	0.188	0.252	***5.969***	19.523	4.564
2022-07-22 12:30	2511003	8.160	-115.817	278.908	19.593	348.02	388.101	0.188	0.252	***6.165***	19.593	3.88
2022-07-22 12:45	2511903	8.147	-115.099	280.213	19.674	348.598	388.073	0.188	0.252	***5.889***	19.674	4.048
2022-07-22 13:00	2512803	8.123	-113.759	274.066	19.723	349.5	388.674	0.188	0.253	***6.161***	19.723	4.27
2022-07-22 13:15	2513703	8.177	-116.882	278.241	19.771	349.966	388.793	0.188	0.253	***6.472***	19.771	4.119
2022-07-22 13:30	2514603	8.174	-116.715	276.546	19.816	349.775	388.214	0.188	0.252	6.904	19.816	3.872
2022-07-22 13:45	2515503	8.206	-118.558	276.713	19.854	349.939	388.087	0.188	0.252	6.856	19.854	4.863
2022-07-22 14:00	2516403	8.179	-117.013	268.108	19.855	349.563	387.659	0.187	0.252	7.098	19.855	5.636
2022-07-22 14:15	2517303	8.198	-118.055	277.704	19.865	349.785	387.819	0.188	0.252	7.243	19.865	5.075
2022-07-22 14:30	2518203	8.169	-116.415	284.025	19.865	349.583	387.601	0.187	0.252	7.004	19.865	4.829
2022-07-22 14:45	2519103	8.187	-117.474	283.329	19.855	349.719	387.83	0.188	0.252	6.914	19.855	4.345
2022-07-22 15:00	2520003	8.166	-116.26	275.513	19.883	350.008	387.925	0.188	0.252	7.099	19.883	7.022
2022-07-22 15:15	2520903	8.163	-116.122	285.169	19.895	349.761	387.547	0.187	0.252	6.979	19.895	5.823
2022-07-22 15:30	2521803	8.203	-118.406	280.053	19.898	349.883	387.656	0.187	0.252	7.321	19.898	27.832
2022-07-22 15:45	2522703	8.197	-118.046	279.907	19.914	350.088	387.752	0.188	0.252	7.320	19.914	7.066
2022-07-22 16:00	2523603	8.209	-118.756	274.29	19.952	350.424	387.818	0.188	0.252	7.268	19.952	4.661
2022-07-22 16:15	2524503	8.212	-118.911	279.671	20.003	350.926	387.95	0.188	0.252	7.364	20.003	4.547
2022-07-22 16:30	2525403	8.214	-119.052	281.328	20.048	351.285	387.98	0.188	0.252	7.157	20.048	7.466
2022-07-22 16:45	2526303	8.203	-118.456	282.635	20.109	351.818	388.072	0.188	0.252	7.223	20.109	4.567
2022-07-22 17:00	2527203	8.176	-116.925	274.77	20.095	351.225	387.533	0.187	0.252	7.048	20.095	5.657
2022-07-22 17:15	2528103	8.187	-117.54	281.836	20.104	351.38	387.632	0.187	0.252	7.535	20.104	4.506
2022-07-22 17:30	2529003	8.195	-118.053	280.539	20.151	352.352	388.313	0.188	0.252	7.235	20.151	4.125
2022-07-22 17:45	2529903	8.206	-118.699	280.418	20.216	353.374	388.912	0.188	0.253	7.182	20.216	4.637
2022-07-22 18:00	2530803	8.184	-117.478	275.406	20.347	354.287	388.841	0.188	0.253	6.785	20.347	7.991
2022-07-22 18:15	2531703	8.209	-118.937	279.378	20.46	355.366	389.11	0.188	0.253	***6.282***	20.46	3.921
2022-07-22 18:30	2532603	8.209	-119.009	280.642	20.61	356.96	389.632	0.188	0.253	***6.405***	20.61	4.268
2022-07-22 18:45	2533503	8.234	-120.487	279.657	20.755	358.156	389.76	0.189	0.253	6.639	20.755	5.298
2022-07-22 19:00	2534403	8.203	-118.811	274.467	20.9	359.769	390.334	0.189	0.254	6.771	20.9	5.232
2022-07-22 19:15	2535303	8.257	-121.911	277.414	21.035	360.666	390.217	0.189	0.254	7.128	21.035	4.188
2022-07-22 19:30	2536203	8.168	-116.837	282.029	20.988	359.015	388.81	0.188	0.253	7.295	20.988	6.047
2022-07-22 19:45	2537103	8.217	-119.619	279.695	20.942	358.884	389.039	0.188	0.253	7.475	20.942	4.715
2022-07-22 20:00	2538003	8.238	-120.792	274.312	20.912	358.853	389.245	0.188	0.253	7.552	20.912	4.946
2022-07-22 20:15	2538903	8.247	-121.245	281.059	20.856	358.509	389.323	0.188	0.253	7.904	20.856	4.903
2022-07-22 20:30	2539803	8.239	-120.783	282.327	20.825	358.193	389.23	0.188	0.253	7.694	20.825	4.076
2022-07-22 20:45	2540703	8.250	-121.446	281.078	20.853	358.479	389.318	0.188	0.253	7.361	20.853	4.04
2022-07-22 21:00	2541603	8.201	-118.637	277.755	20.885	359.115	389.746	0.189	0.253	7.313	20.885	3.911
2022-07-22 21:15	2542503	8.218	-119.615	283.35	20.895	359.276	389.843	0.189	0.253	7.216	20.895	3.678
2022-07-22 21:30	2543403	8.223	-119.951	280.372	20.919	359.927	390.354	0.189	0.254	7.057	20.919	3.559
2022-07-22 21:45	2544303	8.205	-118.933	278.463	20.939	360.401	390.71	0.189	0.254	7.106	20.939	3.632
2022-07-22 22:00	2545203	8.149	-115.705	279.676	20.929	359.915	390.262	0.189	0.254	***6.488***	20.929	3.92
2022-07-22 22:15	2546103	8.148	-115.662	282.854	20.924	360.383	390.806	0.189	0.254	6.844	20.924	3.784
2022-07-22 22:30	2547003	8.148	-115.669	284.037	20.916	360.418	390.915	0.189	0.254	6.717	20.916	3.292
2022-07-22 22:45	2547903	8.137	-115.016	286.202	20.903	360.34	390.933	0.189	0.254	6.585	20.903	3.422

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-22 23:00	2548803	8.117	-113.885	280.852	20.855	359.811	390.746	0.189	0.254	***6.443***	20.855	4.241
2022-07-22 23:15	2549703	8.076	-111.549	290.248	20.832	360.034	391.172	0.189	0.254	***5.878***	20.832	4.217
2022-07-22 23:30	2550603	8.098	-112.801	287.689	20.782	359.73	391.251	0.189	0.254	6.520	20.782	4.252
2022-07-22 23:45	2551503	8.109	-113.361	285.308	20.718	359.061	391.046	0.189	0.254	6.998	20.718	4.319
2022-07-23 00:00	2552403	8.143	-115.283	273.122	20.65	358.508	390.99	0.189	0.254	7.067	20.65	10.25
2022-07-23 00:15	2553303	8.134	-114.725	286.662	20.601	357.984	390.824	0.189	0.254	7.103	20.601	4.999
2022-07-23 00:30	2554203	8.126	-114.264	286.593	20.523	357.427	390.848	0.189	0.254	6.803	20.523	4.242
2022-07-23 00:45	2555103	8.141	-115.054	287.32	20.443	356.825	390.847	0.189	0.254	6.708	20.443	3.987
2022-07-23 01:00	2556003	8.147	-115.399	276.288	20.37	355.976	390.513	0.189	0.254	6.822	20.37	9.898
2022-07-23 01:15	2556903	8.141	-115.025	287.956	20.328	355.842	390.711	0.189	0.254	6.636	20.328	4.475
2022-07-23 01:30	2557803	8.138	-114.868	285.165	20.268	355.246	390.54	0.189	0.254	6.940	20.268	3.743
2022-07-23 01:45	2558703	8.136	-114.715	284.211	20.212	354.609	390.304	0.189	0.254	6.948	20.212	3.989
2022-07-23 02:00	2559603	8.173	-116.792	269.977	20.141	354.13	390.355	0.189	0.254	7.001	20.141	6.005
2022-07-23 02:15	2560503	8.168	-116.47	282.573	20.091	353.657	390.245	0.189	0.254	7.146	20.091	4.066
2022-07-23 02:30	2561403	8.153	-115.623	285.198	20.038	353.204	390.185	0.189	0.254	6.831	20.038	4.267
2022-07-23 02:45	2562303	8.156	-115.752	288.269	19.982	352.705	390.091	0.189	0.254	6.629	19.982	3.708
2022-07-23 03:00	2563203	8.140	-114.806	282.358	19.912	352.029	389.923	0.189	0.253	6.813	19.912	4.77
2022-07-23 03:15	2564103	8.135	-114.501	291.313	19.86	351.7	389.984	0.189	0.253	6.752	19.86	4.258
2022-07-23 03:30	2565003	8.135	-114.505	288.786	19.81	351.32	389.977	0.189	0.253	6.788	19.81	4.217
2022-07-23 03:45	2565903	8.178	-116.916	285.956	19.746	350.784	389.912	0.189	0.253	6.983	19.746	7.695
2022-07-23 04:00	2566803	8.164	-116.088	271.372	19.707	350.427	389.836	0.189	0.253	6.760	19.707	5.162
2022-07-23 04:15	2567703	8.146	-115.037	284.807	19.667	350.019	389.714	0.188	0.253	6.809	19.667	4.488
2022-07-23 04:30	2568603	8.149	-115.204	286.144	19.632	349.822	389.789	0.189	0.253	6.924	19.632	8.581
2022-07-23 04:45	2569503	8.138	-114.591	287.666	19.567	349.229	389.666	0.188	0.253	6.575	19.567	3.811
2022-07-23 05:00	2570403	8.134	-114.3	280.098	19.518	348.677	389.454	0.188	0.253	***5.874***	19.518	10.016
2022-07-23 05:15	2571303	8.117	-113.361	290.786	19.481	348.551	389.624	0.188	0.253	***6.419***	19.481	4.1
2022-07-23 05:30	2572203	8.118	-113.366	288.955	19.432	348.17	389.605	0.188	0.253	***6.353***	19.432	3.849
2022-07-23 05:45	2573103	8.120	-113.48	287.427	19.386	347.765	389.53	0.188	0.253	***6.356***	19.386	4.222
2022-07-23 06:00	2574003	8.129	-113.988	283.55	19.345	347.396	389.46	0.188	0.253	***6.468***	19.345	4.959
2022-07-23 06:15	2574903	8.133	-114.164	289.842	19.308	347.106	389.448	0.188	0.253	***6.472***	19.308	4.414
2022-07-23 06:30	2575803	8.124	-113.659	291.487	19.278	347.044	389.626	0.188	0.253	***6.394***	19.278	4.302
2022-07-23 06:45	2576703	8.121	-113.454	292.222	19.24	346.686	389.543	0.188	0.253	***6.368***	19.24	3.981
2022-07-23 07:00	2577603	8.134	-114.212	283.963	19.192	346.139	389.327	0.188	0.253	6.509	19.192	7.653
2022-07-23 07:15	2578503	8.114	-113.056	292.091	19.166	346.051	389.443	0.188	0.253	***6.245***	19.166	4.486
2022-07-23 07:30	2579403	8.106	-112.603	290.844	19.126	345.86	389.568	0.188	0.253	***5.803***	19.126	4.501
2022-07-23 07:45	2580303	8.108	-112.672	289.811	19.105	345.696	389.557	0.188	0.253	***6.346***	19.105	4.968
2022-07-23 08:00	2581203	8.129	-113.881	278.928	19.078	345.415	389.466	0.188	0.253	6.514	19.078	71.593
2022-07-23 08:15	2582103	8.129	-113.85	286.507	19.072	345.592	389.715	0.188	0.253	***6.215***	19.072	5.018
2022-07-23 08:30	2583003	8.125	-113.64	288.65	19.059	345.455	389.676	0.188	0.253	***6.233***	19.059	4.892
2022-07-23 08:45	2583903	8.134	-114.129	290.643	19.048	345.47	389.782	0.188	0.253	***5.912***	19.048	4.867
2022-07-23 09:00	2584803	8.111	-112.863	284.418	19.039	345.172	389.523	0.188	0.253	***6.217***	19.039	4.861
2022-07-23 09:15	2585703	8.093	-111.787	292.865	19.022	345.633	390.183	0.189	0.254	***5.924***	19.022	4.284
2022-07-23 09:30	2586603	8.110	-112.746	288.786	19.009	345.703	390.373	0.189	0.254	***5.990***	19.009	4.298
2022-07-23 09:45	2587503	8.125	-113.642	283.705	19.003	345.861	390.599	0.189	0.254	***5.913***	19.003	4.255
2022-07-23 10:00	2588403	8.127	-113.74	275.799	18.993	345.041	389.76	0.188	0.253	***6.049***	18.993	5.271
2022-07-23 10:15	2589303	8.131	-113.962	282.735	18.991	345.179	389.933	0.189	0.253	***5.503***	18.991	4.29
2022-07-23 10:30	2590203	8.092	-111.763	285.677	19.001	345.527	390.238	0.189	0.254	***4.576***	19.001	4.699
2022-07-23 10:45	2591103	8.162	-115.695	284.259	19.028	345.454	389.932	0.189	0.253	***4.403***	19.028	4.609

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-23 11:00	2592003	8.128	-113.781	275.568	19.059	346.249	390.566	0.189	0.254	***4.776***	19.059	8.111
2022-07-23 11:15	2592903	8.171	-116.239	279.998	19.092	347.635	391.851	0.190	0.255	***5.439***	19.092	4.661
2022-07-23 11:30	2593803	8.162	-115.771	279.147	19.128	347.663	391.578	0.189	0.255	***5.679***	19.128	4.245
2022-07-23 11:45	2594703	8.163	-115.814	278.844	19.181	347.072	390.468	0.189	0.254	***5.943***	19.181	4.927
2022-07-23 12:00	2595603	8.157	-115.497	275.304	19.237	346.981	389.901	0.189	0.253	6.505	19.237	7.139
2022-07-23 12:15	2596503	8.150	-115.166	280.854	19.302	347.357	389.78	0.189	0.253	6.541	19.302	5.039
2022-07-23 12:30	2597403	8.179	-116.82	281.91	19.356	347.801	389.828	0.189	0.253	***6.480***	19.356	4.128
2022-07-23 12:45	2598303	8.177	-116.742	282.11	19.422	348.463	390.016	0.189	0.254	6.572	19.422	4.868
2022-07-23 13:00	2599203	8.145	-114.949	277.027	19.458	348.982	390.297	0.189	0.254	6.651	19.458	4.978
2022-07-23 13:15	2600103	8.178	-116.827	282.788	19.544	349.897	390.601	0.189	0.254	6.719	19.544	4.884
2022-07-23 13:30	2601003	8.168	-116.317	282.776	19.64	350.4	390.365	0.189	0.254	6.963	19.64	6.151
2022-07-23 13:45	2601903	8.179	-116.963	279.955	19.746	351.302	390.489	0.189	0.254	6.947	19.746	6.263
2022-07-23 14:00	2602803	8.176	-116.827	276.562	19.805	351.909	390.669	0.189	0.254	7.424	19.805	17.94
2022-07-23 14:15	2603703	8.183	-117.264	281.061	19.883	352.87	391.093	0.189	0.254	7.364	19.883	6.195
2022-07-23 14:30	2604603	8.205	-118.532	283.474	19.939	352.804	390.558	0.189	0.254	7.506	19.939	6.58
2022-07-23 14:45	2605503	8.203	-118.401	284.816	19.969	353.432	391.004	0.189	0.254	7.518	19.969	5.843
2022-07-23 15:00	2606403	8.177	-116.98	277.592	20.026	354.182	391.364	0.189	0.254	7.477	20.026	8.226
2022-07-23 15:15	2607303	8.206	-118.601	282.89	20.077	354.43	391.216	0.189	0.254	7.157	20.077	92.575
2022-07-23 15:30	2608203	8.222	-119.536	281.421	20.068	354.22	391.062	0.189	0.254	7.722	20.068	7.824
2022-07-23 15:45	2609103	8.211	-118.895	282.141	20.074	354.067	390.841	0.189	0.254	7.723	20.074	5.994
2022-07-23 16:00	2610003	8.214	-119.078	271.236	20.109	354.773	391.334	0.189	0.254	7.691	20.109	12.879
2022-07-23 16:15	2610903	8.218	-119.295	280.489	20.118	354.785	391.272	0.189	0.254	7.777	20.118	6.426
2022-07-23 16:30	2611803	8.236	-120.313	282.983	20.086	354.455	391.165	0.189	0.254	7.704	20.086	6.17
2022-07-23 16:45	2612703	8.256	-121.448	282.373	20.122	354.833	391.286	0.189	0.254	7.690	20.122	5.907
2022-07-23 17:00	2613603	8.206	-118.659	280.332	20.18	355.247	391.264	0.189	0.254	7.852	20.18	6.467
2022-07-23 17:15	2614503	8.252	-121.281	284.015	20.205	355.025	390.816	0.189	0.254	7.915	20.205	6.188
2022-07-23 17:30	2615403	8.256	-121.527	282.966	20.214	354.976	390.693	0.189	0.254	7.948	20.214	5.751
2022-07-23 17:45	2616303	8.267	-122.139	281.173	20.215	355.155	390.877	0.189	0.254	7.938	20.215	6.184
2022-07-23 18:00	2617203	8.263	-121.939	277.614	20.277	355.137	390.353	0.189	0.254	8.216	20.277	10.471
2022-07-23 18:15	2618103	8.263	-121.927	282.683	20.307	355.209	390.188	0.189	0.254	8.220	20.307	5.739
2022-07-23 18:30	2619003	8.304	-124.302	281.724	20.35	355.388	390.032	0.189	0.254	8.367	20.35	5.337
2022-07-23 18:45	2619903	8.297	-123.923	283.612	20.395	356.025	390.358	0.189	0.254	8.456	20.395	5.427
2022-07-23 19:00	2620803	8.262	-121.987	274.789	20.501	357.395	390.997	0.189	0.254	8.324	20.501	6.794
2022-07-23 19:15	2621703	8.290	-123.596	278.563	20.524	357.778	391.222	0.189	0.254	8.077	20.524	9.68
2022-07-23 19:30	2622603	8.277	-122.84	278.875	20.566	358.377	391.537	0.189	0.254	8.101	20.566	5.915
2022-07-23 19:45	2623503	8.261	-121.996	279.175	20.644	359.455	392.074	0.190	0.255	8.050	20.644	4.89
2022-07-23 20:00	2624403	8.258	-121.82	272.478	20.695	359.943	392.194	0.190	0.255	8.128	20.695	6.649
2022-07-23 20:15	2625303	8.115	-113.733	281.55	20.729	360.57	392.595	0.190	0.255	7.996	20.729	5.581
2022-07-23 20:30	2626203	8.258	-121.841	278.665	20.77	360.794	392.505	0.190	0.255	7.952	20.77	5.063
2022-07-23 20:45	2627103	8.230	-120.251	277.907	20.792	360.973	392.525	0.190	0.255	8.033	20.792	4.889
2022-07-23 21:00	2628003	8.210	-119.133	269.703	20.845	361.732	392.91	0.190	0.255	7.656	20.845	5.359
2022-07-23 21:15	2628903	8.283	-123.363	273.699	21.006	363.809	393.853	0.191	0.256	7.020	21.006	4.579
2022-07-23 21:30	2629803	8.275	-122.993	272.168	21.159	365.303	394.224	0.191	0.256	6.890	21.159	4.549
2022-07-23 21:45	2630703	8.273	-122.933	271.682	21.301	366.506	394.369	0.191	0.256	***6.280***	21.301	5.305
2022-07-23 22:00	2631603	8.228	-120.392	270.066	21.405	366.94	393.99	0.191	0.256	6.982	21.405	18.162
2022-07-23 22:15	2632503	8.239	-121.038	275.556	21.448	367.29	394.019	0.191	0.256	6.962	21.448	4.87
2022-07-23 22:30	2633403	8.209	-119.371	278.801	21.485	367.806	394.276	0.191	0.256	6.859	21.485	4.226
2022-07-23 22:45	2634303	8.196	-118.647	280.983	21.521	368.201	394.413	0.191	0.256	6.738	21.521	4.604

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-23 23:00	2635203	8.175	-117.486	278.191	21.578	368.654	394.435	0.191	0.256	6.675	21.578	4.851
2022-07-23 23:15	2636103	8.204	-119.159	279.869	21.622	368.861	394.3	0.191	0.256	7.333	21.622	5.225
2022-07-23 23:30	2637003	8.189	-118.275	276.663	21.626	368.828	394.231	0.191	0.256	7.602	21.626	4.785
2022-07-23 23:45	2637903	8.170	-117.211	276.512	21.627	368.722	394.116	0.191	0.256	7.446	21.627	6.746
2022-07-24 00:00	2638803	8.190	-118.339	276.219	21.595	368.629	394.268	0.191	0.256	6.809	21.595	5.454
2022-07-24 00:15	2639703	8.174	-117.373	280.713	21.515	368.686	394.98	0.191	0.257	6.985	21.515	4.046
2022-07-24 00:30	2640603	8.132	-114.946	283.806	21.434	368.451	395.385	0.191	0.257	***6.419***	21.434	3.878
2022-07-24 00:45	2641503	8.111	-113.742	286.221	21.394	368.265	395.504	0.191	0.257	***6.160***	21.394	3.893
2022-07-24 01:00	2642403	8.095	-112.817	272.819	21.385	367.935	395.221	0.191	0.257	***6.078***	21.385	5.434
2022-07-24 01:15	2643303	8.083	-112.162	280.606	21.381	368.115	395.454	0.191	0.257	***5.964***	21.381	4.193
2022-07-24 01:30	2644203	8.067	-111.217	283.462	21.372	368.104	395.511	0.191	0.257	***5.882***	21.372	4.13
2022-07-24 01:45	2645103	8.065	-111.115	284.108	21.361	368.035	395.526	0.191	0.257	***5.793***	21.361	4.245
2022-07-24 02:00	2646003	8.095	-112.841	279.4	21.343	367.308	394.89	0.191	0.257	***5.843***	21.343	6.406
2022-07-24 02:15	2646903	8.090	-112.524	284.271	21.334	367.385	395.045	0.191	0.257	***6.067***	21.334	5.212
2022-07-24 02:30	2647803	8.137	-115.187	283.105	21.313	367.498	395.342	0.191	0.257	***5.771***	21.313	5.032
2022-07-24 02:45	2648703	8.135	-115.099	284.228	21.29	367.314	395.324	0.191	0.257	***6.077***	21.29	4.338
2022-07-24 03:00	2649603	8.116	-113.976	280.697	21.283	366.984	395.03	0.191	0.257	***6.090***	21.283	4.907
2022-07-24 03:15	2650503	8.082	-112.069	285.131	21.284	367.226	395.28	0.191	0.257	***6.425***	21.284	4.171
2022-07-24 03:30	2651403	8.103	-113.273	283.062	21.278	367.052	395.145	0.191	0.257	***6.166***	21.278	4.16
2022-07-24 03:45	2652303	8.111	-113.726	281.674	21.266	366.893	395.07	0.191	0.257	***5.763***	21.266	4.01
2022-07-24 04:00	2653203	8.121	-114.25	276.21	21.246	366.581	394.898	0.191	0.257	***6.097***	21.246	16.017
2022-07-24 04:15	2654103	8.150	-115.924	282.036	21.23	367.268	395.763	0.192	0.257	***6.005***	21.23	3.838
2022-07-24 04:30	2655003	8.183	-117.76	283.596	21.205	366.1	394.708	0.191	0.257	***6.184***	21.205	4.06
2022-07-24 04:45	2655903	8.203	-118.895	284.056	21.161	365.956	394.917	0.191	0.257	***6.193***	21.161	4.15
2022-07-24 05:00	2656803	8.201	-118.763	276.856	21.11	365.341	394.663	0.191	0.257	***6.270***	21.11	5.094
2022-07-24 05:15	2657703	8.171	-117.052	285	21.085	365.445	394.977	0.191	0.257	***6.365***	21.085	4.047
2022-07-24 05:30	2658603	8.169	-116.92	285.749	21.055	365.099	394.852	0.191	0.257	***6.163***	21.055	4.489
2022-07-24 05:45	2659503	8.167	-116.773	284.099	21.013	364.824	394.894	0.191	0.257	***6.164***	21.013	4.32
2022-07-24 06:00	2660403	8.194	-118.287	274.944	20.98	364.458	394.772	0.191	0.257	***6.464***	20.98	15.17
2022-07-24 06:15	2661303	8.197	-118.477	282.258	20.951	364.632	395.195	0.191	0.257	***6.368***	20.951	4.473
2022-07-24 06:30	2662203	8.187	-117.86	285.525	20.917	364.338	395.154	0.191	0.257	***6.158***	20.917	3.993
2022-07-24 06:45	2663103	8.181	-117.557	286.059	20.889	364.188	395.218	0.191	0.257	***6.144***	20.889	4.097
2022-07-24 07:00	2664003	8.181	-117.5	281.75	20.853	363.336	394.588	0.191	0.256	***6.381***	20.853	4.515
2022-07-24 07:15	2664903	8.169	-116.847	286.969	20.827	363.448	394.928	0.191	0.257	***6.249***	20.827	4.124
2022-07-24 07:30	2665803	8.182	-117.548	283.629	20.81	363.399	395.013	0.191	0.257	***5.995***	20.81	4.318
2022-07-24 07:45	2666703	8.170	-116.88	282.506	20.796	363.155	394.858	0.191	0.257	***6.213***	20.796	4.11
2022-07-24 08:00	2667603	8.189	-117.962	273.041	20.781	362.926	394.737	0.191	0.257	***6.395***	20.781	17.601
2022-07-24 08:15	2668503	8.183	-117.621	281.865	20.773	362.86	394.726	0.191	0.257	6.637	20.773	4.089
2022-07-24 08:30	2669403	8.197	-118.372	282.737	20.763	362.827	394.771	0.191	0.257	6.826	20.763	3.91
2022-07-24 08:45	2670303	8.191	-118.046	283.834	20.753	362.636	394.652	0.191	0.257	6.616	20.753	4.151
2022-07-24 09:00	2671203	8.177	-117.264	276.567	20.741	362.347	394.432	0.191	0.256	6.637	20.741	4.244
2022-07-24 09:15	2672103	8.215	-119.414	280.554	20.738	362.677	394.814	0.191	0.257	6.827	20.738	3.893
2022-07-24 09:30	2673003	8.222	-119.781	278.32	20.74	362.212	394.298	0.191	0.256	6.925	20.74	3.903
2022-07-24 09:45	2673903	8.211	-119.152	277.371	20.744	362.238	394.293	0.191	0.256	7.170	20.744	4.052
2022-07-24 10:00	2674803	8.211	-119.166	275.919	20.73	361.812	393.942	0.191	0.256	6.859	20.73	4.388
2022-07-24 10:15	2675703	8.202	-118.668	282.84	20.715	361.42	393.639	0.190	0.256	7.485	20.715	4.207
2022-07-24 10:30	2676603	8.203	-118.69	282.776	20.729	361.522	393.63	0.190	0.256	7.645	20.729	5.192
2022-07-24 10:45	2677503	8.220	-119.689	282.974	20.737	361.598	393.648	0.190	0.256	7.720	20.737	4.197

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-24 11:00	2678403	8.245	-121.086	270.933	20.74	361.575	393.604	0.190	0.256	7.779	20.74	4.488
2022-07-24 11:15	2679303	8.232	-120.38	278.677	20.718	361.001	393.153	0.190	0.256	7.753	20.718	4.279
2022-07-24 11:30	2680203	8.235	-120.487	276.357	20.677	360.543	392.993	0.190	0.255	7.733	20.677	4.239
2022-07-24 11:45	2681103	8.211	-119.104	279.326	20.629	359.86	392.643	0.190	0.255	7.686	20.629	4.513
2022-07-24 12:00	2682003	8.217	-119.474	272.204	20.607	359.249	392.155	0.190	0.255	7.800	20.607	5.004
2022-07-24 12:15	2682903	8.197	-118.308	281.841	20.618	359.461	392.296	0.190	0.255	7.752	20.618	4.64
2022-07-24 12:30	2683803	8.204	-118.735	286.457	20.62	359.956	392.816	0.190	0.255	7.837	20.62	4.57
2022-07-24 12:45	2684703	8.229	-120.158	284.087	20.635	360.108	392.866	0.190	0.255	7.812	20.635	5.026
2022-07-24 13:00	2685603	8.219	-119.56	270.442	20.639	360.13	392.855	0.190	0.255	7.811	20.639	6.279
2022-07-24 13:15	2686503	8.220	-119.641	281.972	20.643	359.838	392.499	0.190	0.255	7.813	20.643	5.229
2022-07-24 13:30	2687403	8.227	-120.06	282.366	20.651	360.126	392.748	0.190	0.255	7.848	20.651	5.24
2022-07-24 13:45	2688303	8.224	-119.905	282.935	20.667	360.284	392.789	0.190	0.255	7.782	20.667	6.118
2022-07-24 14:00	2689203	8.219	-119.588	275.773	20.69	360.62	392.973	0.190	0.255	7.732	20.69	6.291
2022-07-24 14:15	2690103	8.232	-120.38	279.49	20.76	360.948	392.755	0.190	0.255	7.792	20.76	5.672
2022-07-24 14:30	2691003	8.232	-120.382	280.952	20.796	361.33	392.879	0.190	0.255	7.865	20.796	5.48
2022-07-24 14:45	2691903	8.236	-120.645	280.544	20.84	361.479	392.678	0.190	0.255	7.899	20.84	5.087
2022-07-24 15:00	2692803	8.245	-121.195	264.737	20.934	361.69	392.141	0.190	0.255	8.052	20.934	11.079
2022-07-24 15:15	2693703	8.267	-122.499	276.372	21.034	361.698	391.346	0.189	0.254	8.234	21.034	5.615
2022-07-24 15:30	2694603	8.289	-123.792	272.116	21.121	362.929	391.968	0.190	0.255	8.546	21.121	5.419
2022-07-24 15:45	2695503	8.287	-123.637	271.663	21.154	363.327	392.131	0.190	0.255	8.455	21.154	5.245
2022-07-24 16:00	2696403	8.280	-123.258	270.867	21.17	362.929	391.577	0.189	0.255	8.482	21.17	5.556
2022-07-24 16:15	2697303	8.290	-123.87	276.906	21.253	364.067	392.13	0.190	0.255	8.488	21.253	4.651
2022-07-24 16:30	2698203	8.297	-124.309	274.069	21.345	365.472	392.904	0.190	0.255	8.357	21.345	4.928
2022-07-24 16:45	2699103	8.297	-124.309	272.721	21.302	365.382	393.149	0.190	0.256	8.436	21.302	4.921
2022-07-24 17:00	2700003	8.257	-122.006	262.276	21.284	365.912	393.871	0.191	0.256	7.977	21.284	10.881
2022-07-24 17:15	2700903	8.260	-122.199	274.462	21.317	365.819	393.5	0.190	0.256	8.144	21.317	5.964
2022-07-24 17:30	2701803	8.276	-123.127	276.56	21.352	366.092	393.512	0.190	0.256	8.371	21.352	5.214
2022-07-24 17:45	2702703	8.271	-122.857	275.902	21.394	366.39	393.491	0.190	0.256	8.140	21.394	5.227
2022-07-24 18:00	2703603	8.261	-122.311	274.436	21.434	367.101	393.929	0.191	0.256	7.973	21.434	5.406
2022-07-24 18:15	2704503	8.279	-123.365	277.447	21.508	367.869	394.162	0.191	0.256	8.172	21.508	5.345
2022-07-24 18:30	2705403	8.292	-124.125	274.343	21.531	368.137	394.26	0.191	0.256	8.107	21.531	4.624
2022-07-24 18:45	2706303	8.287	-123.827	275.428	21.534	368.2	394.303	0.191	0.256	7.829	21.534	4.501
2022-07-24 19:00	2707203	8.273	-123.041	267.774	21.507	367.763	394.052	0.191	0.256	8.260	21.507	8.07
2022-07-24 19:15	2708103	8.262	-122.38	277.006	21.491	367.768	394.188	0.191	0.256	8.182	21.491	5.155
2022-07-24 19:30	2709003	8.268	-122.702	278.823	21.477	367.599	394.12	0.191	0.256	8.045	21.477	4.734
2022-07-24 19:45	2709903	8.247	-121.512	278.484	21.46	367.542	394.192	0.191	0.256	7.981	21.46	4.64
2022-07-24 20:00	2710803	8.271	-122.895	272.767	21.429	367.404	394.298	0.191	0.256	8.135	21.429	5.978
2022-07-24 20:15	2711703	8.268	-122.709	277.349	21.407	367.323	394.387	0.191	0.256	8.047	21.407	4.845
2022-07-24 20:30	2712603	8.251	-121.696	280.678	21.382	367.25	394.512	0.191	0.256	7.871	21.382	4.436
2022-07-24 20:45	2713503	8.257	-122.049	281.681	21.348	366.856	394.368	0.191	0.256	7.902	21.348	5.023
2022-07-24 21:00	2714403	8.233	-120.649	277.135	21.281	366.168	394.168	0.191	0.256	7.714	21.281	5.249
2022-07-24 21:15	2715303	8.207	-119.126	285.668	21.239	365.751	394.054	0.191	0.256	7.884	21.239	5.337
2022-07-24 21:30	2716203	8.207	-119.126	285.007	21.215	365.858	394.368	0.191	0.256	7.649	21.215	4.806
2022-07-24 21:45	2717103	8.191	-118.234	284.907	21.181	365.659	394.429	0.191	0.256	7.417	21.181	7.487
2022-07-24 22:00	2718003	8.202	-118.854	279.412	21.153	365.616	394.614	0.191	0.256	7.246	21.153	8.456
2022-07-24 22:15	2718903	8.207	-119.112	284.6	21.135	365.689	394.838	0.191	0.257	7.333	21.135	4.453
2022-07-24 22:30	2719803	8.230	-120.38	284.304	21.11	365.478	394.813	0.191	0.257	7.464	21.11	5.341
2022-07-24 22:45	2720703	8.211	-119.286	286.979	21.074	365.359	394.977	0.191	0.257	7.296	21.074	5.797

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-24 23:00	2721603	8.212	-119.336	270.24	21.034	364.929	394.838	0.191	0.257	7.167	21.034	5.953
2022-07-24 23:15	2722503	8.180	-117.519	284.29	21.013	365.02	395.111	0.191	0.257	6.944	21.013	6.683
2022-07-24 23:30	2723403	8.197	-118.492	283.043	20.981	365.004	395.353	0.191	0.257	***6.465***	20.981	5.006
2022-07-24 23:45	2724303	8.214	-119.417	282.375	20.941	364.43	395.057	0.191	0.257	7.014	20.941	4.276
2022-07-25 00:00	2725203	8.210	-119.181	278.651	20.884	363.749	394.782	0.191	0.257	6.912	20.884	5.354
2022-07-25 00:15	2726103	8.198	-118.468	285.286	20.856	363.641	394.894	0.191	0.257	6.715	20.856	4.107
2022-07-25 00:30	2727003	8.207	-118.99	286.099	20.833	363.593	395.03	0.191	0.257	6.594	20.833	5.577
2022-07-25 00:45	2727903	8.213	-119.326	285.598	20.812	363.325	394.912	0.191	0.257	6.966	20.812	3.839
2022-07-25 01:00	2728803	8.231	-120.351	271.589	20.799	363.292	394.987	0.191	0.257	7.003	20.799	5.544
2022-07-25 01:15	2729703	8.232	-120.38	282.375	20.793	363.448	395.201	0.191	0.257	6.992	20.793	4.096
2022-07-25 01:30	2730603	8.217	-119.512	279.738	20.798	363.88	395.637	0.191	0.257	6.880	20.798	3.977
2022-07-25 01:45	2731503	8.214	-119.364	279.538	20.794	364.352	396.18	0.192	0.258	***6.100***	20.794	4.073
2022-07-25 02:00	2732403	8.236	-120.609	276.007	20.782	363.508	395.359	0.191	0.257	***6.333***	20.782	4.684
2022-07-25 02:15	2733303	8.217	-119.531	282.101	20.768	363.735	395.721	0.192	0.257	***6.110***	20.768	4.002
2022-07-25 02:30	2734203	8.228	-120.115	283.529	20.748	363.284	395.396	0.191	0.257	***6.251***	20.748	3.69
2022-07-25 02:45	2735103	8.251	-121.453	281.357	20.737	363.151	395.339	0.191	0.257	***6.493***	20.737	4.221
2022-07-25 03:00	2736003	8.217	-119.514	275.172	20.716	363.146	395.506	0.191	0.257	6.878	20.716	4.309
2022-07-25 03:15	2736903	8.219	-119.617	285.634	20.7	363.61	396.147	0.192	0.257	***6.339***	20.7	3.968
2022-07-25 03:30	2737803	8.240	-120.769	282.647	20.672	363.361	396.104	0.192	0.257	***6.302***	20.672	4.049
2022-07-25 03:45	2738703	8.238	-120.683	283.055	20.65	363.076	395.98	0.192	0.257	6.654	20.65	3.81
2022-07-25 04:00	2739603	8.247	-121.193	277.147	20.638	362.418	395.36	0.191	0.257	6.888	20.638	4.899
2022-07-25 04:15	2740503	8.242	-120.909	281.545	20.625	362.407	395.449	0.191	0.257	6.905	20.625	3.812
2022-07-25 04:30	2741403	8.221	-119.7	285.019	20.59	362.123	395.432	0.191	0.257	6.534	20.59	3.7
2022-07-25 04:45	2742303	8.231	-120.225	285.088	20.563	361.954	395.469	0.191	0.257	7.097	20.563	3.677
2022-07-25 05:00	2743203	8.243	-120.914	269.658	20.55	361.914	395.531	0.191	0.257	7.010	20.55	4.548
2022-07-25 05:15	2744103	8.234	-120.404	285.033	20.527	362.244	396.083	0.192	0.257	***6.349***	20.527	3.879
2022-07-25 05:30	2745003	8.207	-118.859	283.381	20.501	362.386	396.45	0.192	0.258	***6.196***	20.501	3.757
2022-07-25 05:45	2745903	8.228	-120.053	281.915	20.482	362.328	396.545	0.192	0.258	***6.231***	20.482	3.704
2022-07-25 06:00	2746803	8.237	-120.511	272.068	20.457	361.414	395.754	0.192	0.257	***6.269***	20.457	17.533
2022-07-25 06:15	2747703	8.228	-120.01	277.552	20.449	361.277	395.669	0.191	0.257	***6.334***	20.449	4.001
2022-07-25 06:30	2748603	8.211	-119.028	283.241	20.428	361.33	395.902	0.192	0.257	***6.123***	20.428	3.956
2022-07-25 06:45	2749503	8.216	-119.307	283.324	20.412	361.245	395.944	0.192	0.257	***6.076***	20.412	3.748
2022-07-25 07:00	2750403	8.194	-118.053	277.311	20.387	361.646	396.588	0.192	0.258	***6.023***	20.387	4.641
2022-07-25 07:15	2751303	8.214	-119.193	283.987	20.375	361.869	396.93	0.192	0.258	***5.890***	20.375	4.285
2022-07-25 07:30	2752203	8.211	-119.007	281.6	20.362	361.407	396.533	0.192	0.258	***6.050***	20.362	3.966
2022-07-25 07:45	2753103	8.205	-118.67	279.95	20.352	360.785	395.932	0.192	0.257	***5.912***	20.352	4.444
2022-07-25 08:00	2754003	8.234	-120.323	268.563	20.323	360.346	395.693	0.191	0.257	7.132	20.323	6.178
2022-07-25 08:15	2754903	8.213	-119.138	279.721	20.305	359.881	395.335	0.191	0.257	7.082	20.305	4.744
2022-07-25 08:30	2755803	8.193	-117.95	284.325	20.264	359.435	395.181	0.191	0.257	7.250	20.264	4.008
2022-07-25 08:45	2756703	8.196	-118.124	283.198	20.241	359.257	395.178	0.191	0.257	7.293	20.241	3.816
2022-07-25 09:00	2757603	8.219	-119.441	270.08	20.22	359.146	395.229	0.191	0.257	7.287	20.22	4.608
2022-07-25 09:15	2758503	8.222	-119.581	280.191	20.194	358.603	394.846	0.191	0.257	7.410	20.194	3.732
2022-07-25 09:30	2759403	8.231	-120.103	279.44	20.174	358.429	394.826	0.191	0.257	7.493	20.174	3.978
2022-07-25 09:45	2760303	8.240	-120.561	276.362	20.158	358.265	394.773	0.191	0.257	7.513	20.158	5.474
2022-07-25 10:00	2761203	8.258	-121.62	266.07	20.145	358.147	394.753	0.191	0.257	7.635	20.145	10.969
2022-07-25 10:15	2762103	8.250	-121.148	277.566	20.136	358.049	394.718	0.191	0.257	7.670	20.136	4.461
2022-07-25 10:30	2763003	8.223	-119.627	279.719	20.11	357.923	394.798	0.191	0.257	7.602	20.11	3.878
2022-07-25 10:45	2763903	8.229	-119.97	277.44	20.182	358.602	394.948	0.191	0.257	7.403	20.182	3.995

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-25 11:00	2764803	8.256	-121.555	270.876	20.253	359.12	394.924	0.191	0.257	7.579	20.253	5.19
2022-07-25 11:15	2765703	8.251	-121.353	274.2	20.469	360.934	395.133	0.191	0.257	7.354	20.469	31.416
2022-07-25 11:30	2766603	8.271	-122.516	265.817	20.552	361.249	394.79	0.191	0.257	7.784	20.552	4.174
2022-07-25 11:45	2767503	8.280	-123.124	264.169	20.769	363.108	395.029	0.191	0.257	7.810	20.769	4.238
2022-07-25 12:00	2768403	8.270	-122.695	258.438	21.08	366.988	396.686	0.192	0.258	7.724	21.08	4.751
2022-07-25 12:15	2769303	8.299	-124.385	258.695	21.238	368.583	397.115	0.192	0.258	8.005	21.238	4.807
2022-07-25 12:30	2770203	8.276	-123.119	256.943	21.387	370.694	398.173	0.193	0.259	7.896	21.387	4.504
2022-07-25 12:45	2771103	8.281	-123.508	258.402	21.547	372.211	398.496	0.193	0.259	7.976	21.547	4.572
2022-07-25 13:00	2772003	8.259	-122.316	257.875	21.701	373.62	398.746	0.193	0.259	7.879	21.701	4.415
2022-07-25 13:15	2772903	8.265	-122.688	256.154	21.875	375.171	398.983	0.193	0.259	7.988	21.875	4.571
2022-07-25 13:30	2773803	8.272	-123.124	259.325	21.97	375.855	398.944	0.193	0.259	8.111	21.97	4.34
2022-07-25 13:45	2774703	8.279	-123.565	259.599	22.036	376.049	398.614	0.193	0.259	8.240	22.036	4.471
2022-07-25 14:00	2775603	8.288	-124.09	257.527	22.073	377.029	399.354	0.193	0.260	8.306	22.073	4.95
2022-07-25 14:15	2776503	8.289	-124.211	261.883	22.121	377.169	399.114	0.193	0.259	8.424	22.121	4.553
2022-07-25 14:30	2777403	8.317	-125.847	263.352	22.287	377.875	398.526	0.193	0.259	8.563	22.287	4.135
2022-07-25 14:45	2778303	8.309	-125.508	260.619	22.484	380.34	399.543	0.193	0.260	8.299	22.484	4.464
2022-07-25 15:00	2779203	8.295	-124.71	247.144	22.617	381.372	399.556	0.193	0.260	8.412	22.617	4.829
2022-07-25 15:15	2780103	8.329	-126.75	255.915	22.773	381.945	398.911	0.193	0.259	8.928	22.773	4.635
2022-07-25 15:30	2781003	8.322	-126.355	256.397	22.778	381.91	398.833	0.193	0.259	8.913	22.778	5.522
2022-07-25 15:45	2781903	8.314	-125.885	255.439	22.705	380.928	398.392	0.193	0.259	8.885	22.705	5.291
2022-07-25 16:00	2782803	8.335	-127.099	256.247	22.827	382.21	398.76	0.193	0.259	9.117	22.827	6.197
2022-07-25 16:15	2783703	8.327	-126.612	261.728	22.702	380.787	398.266	0.193	0.259	9.201	22.702	4.449
2022-07-25 16:30	2784603	8.326	-126.622	262.994	22.847	382.389	398.789	0.193	0.259	8.573	22.847	5.041
2022-07-25 16:45	2785503	8.331	-126.951	266.458	22.929	382.916	398.683	0.193	0.259	8.800	22.929	4.124
2022-07-25 17:00	2786403	8.315	-126.076	246.915	23.054	385.101	399.971	0.194	0.260	8.667	23.054	7.034
2022-07-25 17:15	2787303	8.323	-126.507	257.873	22.967	384.168	399.685	0.194	0.260	8.735	22.967	4.409
2022-07-25 17:30	2788203	8.307	-125.668	256.576	23.129	385.987	400.29	0.194	0.260	8.540	23.129	10.02
2022-07-25 17:45	2789103	8.314	-126.069	252.69	23.252	387.948	401.344	0.194	0.261	7.842	23.252	5.542
2022-07-25 18:00	2790003	8.294	-124.981	254.311	23.318	389.325	402.249	0.195	0.261	8.205	23.318	5.444
2022-07-25 18:15	2790903	8.277	-124.016	259.303	23.391	390.984	403.378	0.195	0.262	8.188	23.391	4.504
2022-07-25 18:30	2791803	8.272	-123.751	261.397	23.422	391.052	403.204	0.195	0.262	8.379	23.422	5.03
2022-07-25 18:45	2792703	8.278	-124.13	258.912	23.436	391.48	403.535	0.195	0.262	8.317	23.436	4.394
2022-07-25 19:00	2793603	8.297	-125.232	243.916	23.46	391.347	403.208	0.195	0.262	8.647	23.46	5.099
2022-07-25 19:15	2794503	8.282	-124.316	259.675	23.394	390.61	402.968	0.195	0.262	8.575	23.394	4.743
2022-07-25 19:30	2795403	8.275	-123.937	259.356	23.377	390.803	403.303	0.195	0.262	8.242	23.377	4.236
2022-07-25 19:45	2796303	8.248	-122.352	261.263	23.338	390.454	403.258	0.195	0.262	8.436	23.338	4.552
2022-07-25 20:00	2797203	8.276	-123.92	259.275	23.272	390.281	403.603	0.195	0.262	8.137	23.272	4.631
2022-07-25 20:15	2798103	8.253	-122.559	263.607	23.22	390.806	404.557	0.196	0.263	7.956	23.22	5.871
2022-07-25 20:30	2799003	8.242	-121.953	266.332	23.172	390.228	404.345	0.196	0.263	7.767	23.172	5.768
2022-07-25 20:45	2799903	8.236	-121.593	269.057	23.133	389.887	404.308	0.196	0.263	7.310	23.133	4.056
2022-07-25 21:00	2800803	8.251	-122.414	257.72	23.081	389.429	404.246	0.196	0.263	7.341	23.081	5.078
2022-07-25 21:15	2801703	8.194	-119.138	267.374	23.04	389.269	404.406	0.196	0.263	7.193	23.04	4.411
2022-07-25 21:30	2802603	8.187	-118.73	267.131	22.978	389.081	404.711	0.196	0.263	7.200	22.978	4.032
2022-07-25 21:45	2803503	8.189	-118.773	266.766	22.881	388.516	404.905	0.196	0.263	7.078	22.881	3.894
2022-07-25 22:00	2804403	8.191	-118.828	265.409	22.756	386.746	404.062	0.196	0.263	6.996	22.756	4.572
2022-07-25 22:15	2805303	8.187	-118.57	269.815	22.671	386.189	404.169	0.196	0.263	6.961	22.671	3.758
2022-07-25 22:30	2806203	8.139	-115.798	273.213	22.573	384.854	403.563	0.195	0.262	***6.231***	22.573	4.038
2022-07-25 22:45	2807103	8.136	-115.607	275.559	22.5	384.709	404.003	0.196	0.263	***5.830***	22.5	4.041

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-25 23:00	2808003	8.143	-115.995	267.009	22.437	384.411	404.199	0.196	0.263	***5.831***	22.437	4.236
2022-07-25 23:15	2808903	8.113	-114.226	275.728	22.367	383.756	404.073	0.196	0.263	***6.304***	22.367	3.801
2022-07-25 23:30	2809803	8.115	-114.319	275.699	22.274	383.385	404.447	0.196	0.263	***5.969***	22.274	3.717
2022-07-25 23:45	2810703	8.078	-112.205	276.968	22.217	383.279	404.799	0.196	0.263	***5.787***	22.217	3.548
2022-07-26 00:00	2811603	8.105	-113.673	272.822	22.151	382.248	404.242	0.196	0.263	***5.756***	22.151	6.491
2022-07-26 00:15	2812503	8.166	-117.137	276.562	22.092	381.218	403.639	0.195	0.262	***6.336***	22.092	3.989
2022-07-26 00:30	2813403	8.172	-117.486	276.603	22.034	380.579	403.432	0.195	0.262	6.772	22.034	3.765
2022-07-26 00:45	2814303	8.185	-118.175	279.159	21.984	380	403.229	0.195	0.262	6.820	21.984	5.126
2022-07-26 01:00	2815203	8.202	-119.143	265.731	21.918	379.394	403.123	0.195	0.262	6.629	21.918	4.263
2022-07-26 01:15	2816103	8.155	-116.427	276.503	21.881	379.29	403.316	0.195	0.262	6.898	21.881	3.916
2022-07-26 01:30	2817003	8.172	-117.366	273.928	21.816	378.526	403.038	0.195	0.262	7.013	21.816	3.963
2022-07-26 01:45	2817903	8.162	-116.777	278.258	21.769	377.863	402.715	0.195	0.262	6.815	21.769	3.674
2022-07-26 02:00	2818803	8.208	-119.412	266.954	21.715	377.609	402.889	0.195	0.262	6.849	21.715	7.199
2022-07-26 02:15	2819703	8.166	-116.985	275.883	21.676	377.11	402.674	0.195	0.262	***6.498***	21.676	3.863
2022-07-26 02:30	2820603	8.187	-118.155	278.348	21.628	376.426	402.339	0.195	0.262	6.846	21.628	3.954
2022-07-26 02:45	2821503	8.180	-117.753	280.463	21.569	375.842	402.2	0.195	0.261	6.823	21.569	3.723
2022-07-26 03:00	2822403	8.226	-120.37	268.432	21.514	375.172	401.935	0.195	0.261	6.997	21.514	4.363
2022-07-26 03:15	2823303	8.194	-118.501	278.756	21.475	374.947	402.015	0.195	0.261	7.163	21.475	3.986
2022-07-26 03:30	2824203	8.182	-117.786	276.751	21.436	374.807	402.183	0.195	0.261	7.040	21.436	3.825
2022-07-26 03:45	2825103	8.171	-117.159	278.801	21.398	374.344	402	0.195	0.261	6.550	21.398	4.211
2022-07-26 04:00	2826003	8.219	-119.853	267.56	21.352	373.62	401.602	0.194	0.261	6.737	21.352	8.329
2022-07-26 04:15	2826903	8.205	-119.057	276.462	21.304	373.248	401.601	0.194	0.261	7.038	21.304	4.136
2022-07-26 04:30	2827803	8.188	-118.065	280.153	21.276	372.964	401.525	0.194	0.261	6.751	21.276	3.676
2022-07-26 04:45	2828703	8.162	-116.565	280.561	21.22	372.477	401.462	0.194	0.261	6.622	21.22	4.011
2022-07-26 05:00	2829603	8.190	-118.146	274.362	21.163	371.626	401.012	0.194	0.261	7.017	21.163	4.61
2022-07-26 05:15	2830503	8.184	-117.795	280.062	21.127	371.229	400.888	0.194	0.261	***6.463***	21.127	4.142
2022-07-26 05:30	2831403	8.179	-117.49	278.939	21.081	371.051	401.076	0.194	0.261	6.675	21.081	3.91
2022-07-26 05:45	2832303	8.158	-116.265	279.092	21.036	370.493	400.843	0.194	0.261	6.617	21.036	4.092
2022-07-26 06:00	2833203	8.208	-119.09	270.373	20.984	369.687	400.396	0.194	0.260	6.582	20.984	5.811
2022-07-26 06:15	2834103	8.213	-119.393	278.863	20.971	369.79	400.617	0.194	0.260	6.551	20.971	4.276
2022-07-26 06:30	2835003	8.166	-116.677	282.535	20.936	369.502	400.597	0.194	0.260	6.667	20.936	4.421
2022-07-26 06:45	2835903	8.155	-116.048	283.565	20.892	368.758	400.155	0.194	0.260	6.773	20.892	5.098
2022-07-26 07:00	2836803	8.188	-117.927	275.442	20.843	368.141	399.892	0.194	0.260	6.564	20.843	6.278
2022-07-26 07:15	2837703	8.189	-117.972	281.495	20.811	369.347	401.464	0.194	0.261	6.500	20.811	4.639
2022-07-26 07:30	2838603	8.171	-116.913	279.812	20.767	367.512	399.842	0.194	0.260	6.818	20.767	4.759
2022-07-26 07:45	2839503	8.178	-117.304	279.307	20.713	366.949	399.675	0.193	0.260	6.922	20.713	5.435
2022-07-26 08:00	2840403	8.206	-118.878	270.485	20.691	366.562	399.438	0.193	0.260	6.554	20.691	8.85
2022-07-26 08:15	2841303	8.172	-116.94	277.652	20.68	366.347	399.295	0.193	0.260	6.826	20.68	5.057
2022-07-26 08:30	2842203	8.188	-117.855	279.206	20.661	366.294	399.397	0.193	0.260	6.536	20.661	4.587
2022-07-26 08:45	2843103	8.170	-116.78	280.716	20.641	365.995	399.235	0.193	0.260	***6.286***	20.641	4.578
2022-07-26 09:00	2844003	8.175	-117.056	274.266	20.617	365.409	398.792	0.193	0.259	***6.440***	20.617	4.923
2022-07-26 09:15	2844903	8.166	-116.553	282.008	20.602	366.372	399.967	0.194	0.260	6.519	20.602	4.754
2022-07-26 09:30	2845803	8.159	-116.143	276.667	20.587	366.27	399.981	0.194	0.260	***6.252***	20.587	4.752
2022-07-26 09:45	2846703	8.153	-115.798	276.581	20.576	366.025	399.805	0.194	0.260	***6.150***	20.576	4.351
2022-07-26 10:00	2847603	8.176	-117.142	269.722	20.573	364.973	398.688	0.193	0.259	***6.188***	20.573	4.822
2022-07-26 10:15	2848503	8.172	-116.88	275.156	20.575	365.384	399.12	0.193	0.259	***5.941***	20.575	4.238
2022-07-26 10:30	2849403	8.170	-116.801	277.352	20.588	365.507	399.145	0.193	0.259	***5.778***	20.588	4.101
2022-07-26 10:45	2850303	8.200	-118.506	279.202	20.595	365.361	398.928	0.193	0.259	***5.385***	20.595	4.139

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-26 11:00	2851203	8.147	-115.49	276.312	20.606	366.475	400.046	0.194	0.260	***5.405***	20.606	4.554
2022-07-26 11:15	2852103	8.199	-118.432	278.241	20.627	366.872	400.31	0.194	0.260	***5.650***	20.627	4.122
2022-07-26 11:30	2853003	8.191	-118.015	275.294	20.661	367.135	400.307	0.194	0.260	***5.990***	20.661	4.012
2022-07-26 11:45	2853903	8.175	-117.095	274.669	20.715	367.2	399.934	0.194	0.260	***6.334***	20.715	4.702
2022-07-26 12:00	2854803	8.185	-117.707	267.688	20.809	367.999	400.021	0.194	0.260	***6.070***	20.809	15.292
2022-07-26 12:15	2855703	8.198	-118.504	275.037	20.884	368.079	399.486	0.193	0.260	***6.235***	20.884	25.318
2022-07-26 12:30	2856603	8.211	-119.286	275.878	20.949	368.555	399.466	0.193	0.260	***6.349***	20.949	4.079
2022-07-26 12:45	2857503	8.218	-119.715	274.634	21.048	368.911	399.035	0.193	0.259	6.557	21.048	3.665
2022-07-26 13:00	2858403	8.199	-118.637	268.175	21.032	368.942	399.198	0.193	0.259	***6.469***	21.032	4.913
2022-07-26 13:15	2859303	8.283	-123.379	270.762	21.079	369.27	399.163	0.193	0.259	7.292	21.079	3.745
2022-07-26 13:30	2860203	8.280	-123.231	269.038	21.133	369.448	398.915	0.193	0.259	7.525	21.133	3.819
2022-07-26 13:45	2861103	8.277	-123.098	272.032	21.151	369.83	399.173	0.193	0.259	7.274	21.151	4.469
2022-07-26 14:00	2862003	8.274	-122.933	266.69	21.196	369.621	398.581	0.193	0.259	7.385	21.196	4.189
2022-07-26 14:15	2862903	8.289	-123.837	271.649	21.234	370.162	398.854	0.193	0.259	7.424	21.234	4.093
2022-07-26 14:30	2863803	8.276	-123.115	273.129	21.283	370.569	398.89	0.193	0.259	7.429	21.283	5.414
2022-07-26 14:45	2864703	8.284	-123.572	274.843	21.398	371.448	398.889	0.193	0.259	7.491	21.398	5.862
2022-07-26 15:00	2865603	8.287	-123.827	267.982	21.494	371.88	398.571	0.193	0.259	7.767	21.494	6.004
2022-07-26 15:15	2866503	8.275	-123.117	271.758	21.51	371.498	398.027	0.193	0.259	8.492	21.51	6.145
2022-07-26 15:30	2867403	8.277	-123.296	271.305	21.577	372.113	398.146	0.193	0.259	8.164	21.577	6.389
2022-07-26 15:45	2868303	8.308	-125.098	268.087	21.73	373.671	398.562	0.193	0.259	7.805	21.73	5.894
2022-07-26 16:00	2869203	8.330	-126.476	261.053	21.995	375.322	398.179	0.193	0.259	7.687	21.995	23.313
2022-07-26 16:15	2870103	8.338	-126.948	269.977	22.017	374.984	397.636	0.193	0.258	8.650	22.017	8.101
2022-07-26 16:30	2871003	8.353	-127.795	269.86	22.042	374.895	397.343	0.192	0.258	8.855	22.042	6.673
2022-07-26 16:45	2871903	8.358	-128.133	269.396	22.13	375.71	397.5	0.192	0.258	8.296	22.13	8.184
2022-07-26 17:00	2872803	8.364	-128.493	258.865	22.152	375.001	396.571	0.192	0.258	8.926	22.152	8.182
2022-07-26 17:15	2873703	8.330	-126.488	269.045	22.032	374.249	396.743	0.192	0.258	9.041	22.032	7.568
2022-07-26 17:30	2874603	8.339	-127.001	269.191	22.063	374.419	396.671	0.192	0.258	8.982	22.063	26.594
2022-07-26 17:45	2875503	8.356	-128.014	271.839	22.116	374.48	396.313	0.192	0.258	9.081	22.116	7.748
2022-07-26 18:00	2876403	8.381	-129.492	255.291	22.225	375.521	396.542	0.192	0.258	9.495	22.225	27.836
2022-07-26 18:15	2877303	8.356	-128.024	268.535	22.167	375.247	396.713	0.192	0.258	9.096	22.167	5.691
2022-07-26 18:30	2878203	8.364	-128.498	271.415	22.216	375.732	396.837	0.192	0.258	8.943	22.216	7.466
2022-07-26 18:45	2879103	8.391	-130.084	268.139	22.311	376.51	396.896	0.192	0.258	9.039	22.311	10.118
2022-07-26 19:00	2880003	8.348	-127.659	261.232	22.338	376.635	396.813	0.192	0.258	8.530	22.338	12.309
2022-07-26 19:15	2880903	8.400	-130.689	266.654	22.535	377.478	396.127	0.192	0.257	8.841	22.535	5.975
2022-07-26 19:30	2881803	8.356	-128.477	264.131	23.135	383.503	397.666	0.193	0.258	8.755	23.135	7.1
2022-07-26 19:45	2882703	8.311	-125.957	266.935	23.387	386.443	398.726	0.193	0.259	8.817	23.387	6.76
2022-07-26 20:00	2883603	8.302	-125.635	263.817	23.817	392.821	401.905	0.195	0.261	8.211	23.817	6.128
2022-07-26 20:15	2884503	8.302	-125.766	264.265	24.12	395.872	402.638	0.195	0.262	7.922	24.12	8.8
2022-07-26 20:30	2885403	8.295	-125.451	263.187	24.255	397.758	403.501	0.195	0.262	7.483	24.255	5.316
2022-07-26 20:45	2886303	8.287	-124.996	261.749	24.343	398.982	404.05	0.196	0.263	7.189	24.343	4.99
2022-07-26 21:00	2887203	8.244	-122.535	253.96	24.372	399.956	404.809	0.196	0.263	6.583	24.372	5.839
2022-07-26 21:15	2888103	8.169	-118.032	270.22	23.861	393.897	402.66	0.195	0.262	6.749	23.861	6.642
2022-07-26 21:30	2889003	8.230	-121.262	267.433	23.219	384.596	398.138	0.193	0.259	8.280	23.219	4.636
2022-07-26 21:45	2889903	8.263	-123.067	269.946	22.994	383.099	398.365	0.193	0.259	8.354	22.994	4.694
2022-07-26 22:00	2890803	8.228	-121.143	268.492	23.135	386.216	400.481	0.194	0.260	7.921	23.135	6.577
2022-07-26 22:15	2891703	8.202	-119.703	271.763	23.322	390.117	403.037	0.195	0.262	7.415	23.322	4.336
2022-07-26 22:30	2892603	8.191	-119.109	273.887	23.401	391.542	403.88	0.196	0.263	7.057	23.401	4.259
2022-07-26 22:45	2893503	8.177	-118.31	277.168	23.41	391.555	403.817	0.196	0.262	6.709	23.41	3.973

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-26 23:00	2894403	8.139	-116.053	266.456	23.278	389.494	402.737	0.195	0.262	6.531	23.278	5.618
2022-07-26 23:15	2895303	8.130	-115.507	275.976	23.125	387.051	401.428	0.194	0.261	6.933	23.125	5.499
2022-07-26 23:30	2896203	8.074	-112.243	280.68	22.913	384.924	400.902	0.194	0.261	***6.463***	22.913	5.382
2022-07-26 23:45	2897103	8.131	-115.411	276.062	22.715	383.433	400.931	0.194	0.261	6.893	22.715	4.865
2022-07-27 00:00	2898003	8.145	-116.143	272.116	22.585	382.629	401.13	0.194	0.261	6.976	22.585	5.338
2022-07-27 00:15	2898903	8.140	-115.886	282.294	22.589	383.42	401.932	0.195	0.261	6.576	22.589	4.492
2022-07-27 00:30	2899803	8.116	-114.498	281.674	22.621	383.953	402.227	0.195	0.261	***6.047***	22.621	4.122
2022-07-27 00:45	2900703	8.115	-114.448	283.779	22.646	384.641	402.746	0.195	0.262	***6.300***	22.646	3.986
2022-07-27 01:00	2901603	8.086	-112.798	279.168	22.656	384.327	402.344	0.195	0.262	***6.158***	22.656	5.346
2022-07-27 01:15	2902503	8.097	-113.444	282.947	22.729	385.454	402.935	0.195	0.262	***5.707***	22.729	3.916
2022-07-27 01:30	2903403	8.102	-113.757	279.888	22.789	386.409	403.449	0.195	0.262	***5.598***	22.789	4.393
2022-07-27 01:45	2904303	8.044	-110.428	285.572	22.776	387.31	404.492	0.196	0.263	***5.213***	22.776	4.721
2022-07-27 02:00	2905203	8.054	-110.974	272.807	22.662	387.206	405.309	0.196	0.263	***5.296***	22.662	25.116
2022-07-27 02:15	2906103	8.025	-109.308	274.255	22.621	387.179	405.612	0.196	0.264	***5.440***	22.621	4.279
2022-07-27 02:30	2907003	8.002	-107.954	271.32	22.544	386.494	405.518	0.196	0.264	***4.902***	22.544	4.335
2022-07-27 02:45	2907903	7.960	-105.529	276.732	22.423	386.043	406.024	0.197	0.264	***4.401***	22.423	4.21
2022-07-27 03:00	2908803	7.962	-105.588	265.986	22.372	385.933	406.328	0.197	0.264	***4.470***	22.372	4.741
2022-07-27 03:15	2909703	7.916	-102.971	279.488	22.32	385.781	406.595	0.197	0.264	***4.119***	22.32	3.886
2022-07-27 03:30	2910603	7.902	-102.17	279.972	22.275	385.041	406.182	0.197	0.264	***4.298***	22.275	4
2022-07-27 03:45	2911503	7.942	-104.403	279.676	22.184	384.716	406.587	0.197	0.264	***4.659***	22.184	6.029
2022-07-27 04:00	2912403	7.989	-107.074	272.08	22.087	382.969	405.533	0.196	0.264	***4.845***	22.087	5.811
2022-07-27 04:15	2913303	7.953	-104.964	280.761	22.034	381.689	404.609	0.196	0.263	***4.789***	22.034	3.85
2022-07-27 04:30	2914203	8.001	-107.71	281.581	21.969	380.554	403.943	0.196	0.263	***5.465***	21.969	3.935
2022-07-27 04:45	2915103	8.037	-109.737	284.433	21.886	378.447	402.377	0.195	0.262	6.770	21.886	4.079
2022-07-27 05:00	2916003	8.168	-117.145	272.247	21.804	377.416	401.955	0.195	0.261	6.708	21.804	5.737
2022-07-27 05:15	2916903	8.134	-115.218	281.908	21.74	377.205	402.252	0.195	0.261	6.721	21.74	4.614
2022-07-27 05:30	2917803	8.144	-115.743	279.843	21.658	376.584	402.257	0.195	0.261	6.753	21.658	4.333
2022-07-27 05:45	2918703	8.122	-114.434	279.924	21.601	375.9	401.999	0.195	0.261	6.751	21.601	5.499
2022-07-27 06:00	2919603	8.169	-117.13	272.285	21.543	375.023	401.532	0.194	0.261	6.624	21.543	4.645
2022-07-27 06:15	2920503	8.114	-113.955	283.512	21.484	374.39	401.345	0.194	0.261	7.034	21.484	4.487
2022-07-27 06:30	2921403	8.128	-114.751	285.632	21.425	373.932	401.338	0.194	0.261	6.898	21.425	4.262
2022-07-27 06:45	2922303	8.109	-113.609	288.369	21.376	373.371	401.139	0.194	0.261	6.883	21.376	4.074
2022-07-27 07:00	2923203	8.185	-117.917	277.259	21.32	372.576	400.747	0.194	0.260	6.898	21.32	4.848
2022-07-27 07:15	2924103	8.147	-115.776	286.042	21.288	372.462	400.884	0.194	0.261	7.080	21.288	4.278
2022-07-27 07:30	2925003	8.161	-116.532	284.709	21.249	372.449	401.188	0.194	0.261	6.859	21.249	4.459
2022-07-27 07:45	2925903	8.177	-117.404	283.725	21.209	371.97	401.004	0.194	0.261	6.751	21.209	4.098
2022-07-27 08:00	2926803	8.219	-119.791	271.289	21.182	371.685	400.926	0.194	0.261	6.880	21.182	9.121
2022-07-27 08:15	2927703	8.177	-117.388	282.909	21.161	371.38	400.768	0.194	0.260	6.640	21.161	4.246
2022-07-27 08:30	2928603	8.170	-116.992	282.518	21.13	371.144	400.768	0.194	0.260	***6.346***	21.13	4.372
2022-07-27 08:45	2929503	8.184	-117.776	286.462	21.115	371.106	400.85	0.194	0.261	6.978	21.115	4.204
2022-07-27 09:00	2930403	8.214	-119.51	272.14	21.114	371.394	401.17	0.194	0.261	***6.259***	21.114	6.072
2022-07-27 09:15	2931303	8.242	-121.117	279.679	21.127	372.162	401.888	0.195	0.261	***6.195***	21.127	5.054
2022-07-27 09:30	2932203	8.245	-121.245	276.291	21.139	373.088	402.792	0.195	0.262	***5.642***	21.139	4.221
2022-07-27 09:45	2933103	8.243	-121.188	276.128	21.149	373.905	403.587	0.195	0.262	***5.026***	21.149	4.876
2022-07-27 10:00	2934003	8.208	-119.154	272.35	21.159	372.869	402.387	0.195	0.262	***5.549***	21.159	5.829
2022-07-27 10:15	2934903	8.212	-119.424	274.042	21.172	371.743	401.067	0.194	0.261	***5.458***	21.172	5.854
2022-07-27 10:30	2935803	8.237	-120.823	276.293	21.188	371.749	400.944	0.194	0.261	***5.307***	21.188	4.168
2022-07-27 10:45	2936703	8.230	-120.461	276.086	21.208	371.943	400.986	0.194	0.261	***5.456***	21.208	4.217

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-27 11:00	2937603	8.196	-118.504	265.45	21.222	373.377	402.415	0.195	0.262	***5.567***	21.222	4.557
2022-07-27 11:15	2938503	8.220	-119.91	272.35	21.239	374.841	403.856	0.196	0.263	***5.747***	21.239	4.298
2022-07-27 11:30	2939403	8.237	-120.885	271.765	21.265	374.124	402.867	0.195	0.262	***5.764***	21.265	4.074
2022-07-27 11:45	2940303	8.252	-121.753	270.533	21.305	373.977	402.372	0.195	0.262	***5.857***	21.305	4.48
2022-07-27 12:00	2941203	8.223	-120.111	266.103	21.371	373.89	401.735	0.195	0.261	***6.159***	21.371	7.893
2022-07-27 12:15	2942103	8.238	-121.002	271.553	21.443	373.587	400.821	0.194	0.261	***5.948***	21.443	4.01
2022-07-27 12:30	2943003	8.248	-121.577	272.035	21.503	374.056	400.825	0.194	0.261	***5.942***	21.503	4.058
2022-07-27 12:45	2943903	8.251	-121.763	270.988	21.572	374.378	400.608	0.194	0.260	***6.224***	21.572	3.781
2022-07-27 13:00	2944803	8.269	-122.881	262.045	21.695	375.852	401.173	0.194	0.261	***6.389***	21.695	4.384
2022-07-27 13:15	2945703	8.303	-124.85	265.888	21.811	377.245	401.717	0.195	0.261	6.711	21.811	4.365
2022-07-27 13:30	2946603	8.298	-124.638	265.848	21.966	378.412	401.693	0.195	0.261	6.909	21.966	4.015
2022-07-27 13:45	2947503	8.326	-126.259	264.823	22.034	378.931	401.691	0.195	0.261	7.096	22.034	4.631
2022-07-27 14:00	2948403	8.327	-126.352	254.387	22.058	377.366	399.835	0.194	0.260	8.474	22.058	7.145
2022-07-27 14:15	2949303	8.259	-122.426	269.145	22.052	377.51	400.032	0.194	0.260	7.927	22.052	4.422
2022-07-27 14:30	2950203	8.319	-125.871	269.329	22.106	378.224	400.356	0.194	0.260	7.872	22.106	4.631
2022-07-27 14:45	2951103	8.317	-125.821	272.581	22.15	378.458	400.249	0.194	0.260	7.639	22.15	4.687
2022-07-27 15:00	2952003	8.322	-126.102	265.106	22.215	378.701	399.975	0.194	0.260	7.894	22.215	5.282
2022-07-27 15:15	2952903	8.311	-125.482	271.262	22.279	378.67	399.432	0.193	0.260	8.333	22.279	4.444
2022-07-27 15:30	2953803	8.347	-127.583	269.243	22.317	379.792	400.31	0.194	0.260	8.165	22.317	4.489
2022-07-27 15:45	2954703	8.354	-128.021	267.743	22.363	380.402	400.581	0.194	0.260	8.044	22.363	5.07
2022-07-27 16:00	2955603	8.318	-125.961	266.909	22.426	379.721	399.354	0.193	0.260	8.634	22.426	5.183
2022-07-27 16:15	2956503	8.327	-126.488	274.379	22.45	380.419	399.894	0.194	0.260	8.086	22.45	5.018
2022-07-27 16:30	2957403	8.354	-128.067	272.478	22.534	380.948	399.776	0.194	0.260	7.936	22.534	4.413
2022-07-27 16:45	2958303	8.371	-129.156	272.733	22.754	382.341	399.475	0.193	0.260	7.962	22.754	4.621
2022-07-27 17:00	2959203	8.392	-130.601	256.607	23.325	387.61	400.418	0.194	0.260	7.947	23.325	5.978
2022-07-27 17:15	2960103	8.381	-130.1	260.734	23.668	391.091	401.299	0.194	0.261	8.027	23.668	5.472
2022-07-27 17:30	2961003	8.275	-124.016	270.445	23.566	387.806	398.725	0.193	0.259	9.162	23.566	4.633
2022-07-27 17:45	2961903	8.378	-129.941	265.516	23.607	388.745	399.372	0.193	0.260	8.336	23.607	4.622
2022-07-27 18:00	2962803	8.375	-129.833	260.03	23.759	388.929	398.374	0.193	0.259	8.582	23.759	4.504
2022-07-27 18:15	2963703	8.393	-130.851	264.25	23.824	390.53	399.506	0.193	0.260	8.672	23.824	4.601
2022-07-27 18:30	2964603	8.363	-129.12	271.148	23.798	389.837	399	0.193	0.259	8.853	23.798	4.829
2022-07-27 18:45	2965503	8.436	-133.274	269.643	23.636	387.679	398.047	0.193	0.259	9.806	23.636	4.493
2022-07-27 19:00	2966403	8.429	-132.732	257.963	23.387	385.041	397.282	0.192	0.258	9.835	23.387	5.33
2022-07-27 19:15	2967303	8.363	-128.918	271.286	23.262	384.274	397.467	0.192	0.258	9.615	23.262	4.674
2022-07-27 19:30	2968203	8.393	-130.649	269.436	23.305	385.228	398.119	0.193	0.259	9.288	23.305	4.621
2022-07-27 19:45	2969103	8.352	-128.267	268.776	23.239	384.277	397.649	0.193	0.258	9.163	23.239	4.205
2022-07-27 20:00	2970003	8.382	-129.964	261.916	23.141	383.51	397.629	0.192	0.258	9.292	23.141	4.752
2022-07-27 20:15	2970903	8.353	-128.26	272.555	23.107	383.814	398.215	0.193	0.259	8.287	23.107	4.128
2022-07-27 20:30	2971803	8.367	-129.03	272.049	23.073	383.814	398.481	0.193	0.259	8.817	23.073	3.995
2022-07-27 20:45	2972703	8.347	-127.897	278.408	23.009	383.417	398.571	0.193	0.259	9.043	23.009	3.986
2022-07-27 21:00	2973603	8.342	-127.518	264.885	22.9	382.38	398.354	0.193	0.259	8.383	22.9	4.394
2022-07-27 21:15	2974503	8.358	-128.486	274.784	22.915	383.137	399.031	0.193	0.259	8.375	22.915	4.09
2022-07-27 21:30	2975403	8.340	-127.413	272.919	22.922	383.466	399.314	0.193	0.260	8.173	22.922	4.269
2022-07-27 21:45	2976303	8.381	-129.821	270.755	22.969	383.761	399.246	0.193	0.260	8.274	22.969	3.733
2022-07-27 22:00	2977203	8.336	-127.242	268.53	23.011	383.678	398.826	0.193	0.259	8.385	23.011	4.52
2022-07-27 22:15	2978103	8.349	-128.026	273.873	23.056	384.325	399.148	0.193	0.259	7.789	23.056	3.971
2022-07-27 22:30	2979003	8.285	-124.366	277.168	23.045	384.823	399.748	0.194	0.260	7.481	23.045	3.695
2022-07-27 22:45	2979903	8.258	-122.802	281.2	23.022	385.279	400.403	0.194	0.260	7.002	23.022	3.685

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-27 23:00	2980803	8.269	-123.413	266.883	22.945	384.114	399.807	0.194	0.260	7.551	22.945	4.762
2022-07-27 23:15	2981703	8.271	-123.479	277.609	22.918	384.087	399.99	0.194	0.260	7.949	22.918	3.785
2022-07-27 23:30	2982603	8.234	-121.338	279.59	22.874	383.939	400.188	0.194	0.260	7.829	22.874	3.68
2022-07-27 23:45	2983503	8.235	-121.379	278.708	22.842	384.132	400.65	0.194	0.260	7.613	22.842	3.699
2022-07-28 00:00	2984403	8.243	-121.865	273.687	22.818	383.457	400.131	0.194	0.260	7.504	22.818	4.338
2022-07-28 00:15	2985303	8.219	-120.485	280.205	22.806	384.159	400.958	0.194	0.261	7.463	22.806	3.658
2022-07-28 00:30	2986203	8.224	-120.728	279.192	22.801	384.149	400.989	0.194	0.261	6.899	22.801	3.647
2022-07-28 00:45	2987103	8.203	-119.562	282.878	22.792	384.649	401.582	0.194	0.261	***6.321***	22.792	4.948
2022-07-28 01:00	2988003	8.195	-119.116	272.299	22.792	385.149	402.106	0.195	0.261	***6.454***	22.792	6.912
2022-07-28 01:15	2988903	8.197	-119.2	279.233	22.781	386.219	403.312	0.195	0.262	***6.370***	22.781	5.469
2022-07-28 01:30	2989803	8.147	-116.343	280.155	22.753	384.872	402.131	0.195	0.261	6.550	22.753	4.091
2022-07-28 01:45	2990703	8.163	-117.23	276.632	22.714	384.831	402.4	0.195	0.262	6.540	22.714	3.948
2022-07-28 02:00	2991603	8.155	-116.756	274.309	22.733	384.696	402.103	0.195	0.261	***6.399***	22.733	4.814
2022-07-28 02:15	2992503	8.177	-118.043	278.804	22.776	385.33	402.423	0.195	0.262	***5.961***	22.776	3.838
2022-07-28 02:30	2993403	8.160	-117.102	280.017	22.815	385.779	402.578	0.195	0.262	***5.765***	22.815	4.066
2022-07-28 02:45	2994303	8.158	-117.011	279.953	22.852	386.32	402.845	0.195	0.262	***5.225***	22.852	3.524
2022-07-28 03:00	2995203	8.117	-114.66	270.557	22.852	387.202	403.77	0.196	0.262	***5.173***	22.852	4.51
2022-07-28 03:15	2996103	8.148	-116.425	276.758	22.886	389.152	405.53	0.196	0.264	***5.077***	22.886	3.805
2022-07-28 03:30	2997003	8.090	-113.111	279.514	22.883	388.231	404.594	0.196	0.263	***5.282***	22.883	5.596
2022-07-28 03:45	2997903	8.106	-114.024	278.298	22.882	387.596	403.94	0.196	0.263	***5.610***	22.882	3.89
2022-07-28 04:00	2998803	8.099	-113.659	276.202	22.891	387.646	403.913	0.196	0.263	***5.603***	22.891	6.321
2022-07-28 04:15	2999703	8.032	-109.804	284.89	22.863	387.893	404.403	0.196	0.263	***5.211***	22.863	4.069
2022-07-28 04:30	3000603	8.030	-109.653	282.261	22.816	388.489	405.4	0.196	0.264	***5.148***	22.816	4.135
2022-07-28 04:45	3001503	8.073	-112.081	282.897	22.751	387.364	404.751	0.196	0.263	***6.287***	22.751	4.494
2022-07-28 05:00	3002403	8.211	-119.965	266.098	22.653	386.017	404.13	0.196	0.263	7.407	22.653	4.748
2022-07-28 05:15	3003303	8.048	-110.598	282.997	22.583	385.247	403.889	0.196	0.263	***5.494***	22.583	4.368
2022-07-28 05:30	3004203	8.111	-114.188	280.081	22.49	383.902	403.233	0.195	0.262	6.657	22.49	4.166
2022-07-28 05:45	3005103	8.146	-116.124	275.225	22.399	383.628	403.682	0.196	0.262	7.062	22.399	4.184
2022-07-28 06:00	3006003	8.231	-120.935	268.02	22.297	382.353	403.17	0.195	0.262	7.193	22.297	12.972
2022-07-28 06:15	3006903	8.119	-114.51	279.106	22.248	381.91	403.095	0.195	0.262	7.009	22.248	6.117
2022-07-28 06:30	3007803	8.146	-116.065	279.431	22.165	381.267	403.091	0.195	0.262	6.779	22.165	4.267
2022-07-28 06:45	3008703	8.139	-115.626	282.106	22.105	380.851	403.143	0.195	0.262	6.893	22.105	4.315
2022-07-28 07:00	3009603	8.184	-118.12	271.107	21.997	379.477	402.567	0.195	0.262	6.796	21.997	4.596
2022-07-28 07:15	3010503	8.146	-115.962	283.024	21.973	379.644	402.942	0.195	0.262	6.620	21.973	4.005
2022-07-28 07:30	3011403	8.144	-115.824	282.633	21.917	379.07	402.788	0.195	0.262	7.076	21.917	4.096
2022-07-28 07:45	3012303	8.145	-115.852	280.074	21.857	378.645	402.824	0.195	0.262	6.985	21.857	4.271
2022-07-28 08:00	3013203	8.189	-118.363	276.624	21.819	378.302	402.775	0.195	0.262	6.698	21.819	5.648
2022-07-28 08:15	3014103	8.176	-117.614	283.267	21.786	378.269	403.008	0.195	0.262	6.939	21.786	16.439
2022-07-28 08:30	3015003	8.171	-117.29	284.626	21.756	378.113	403.09	0.195	0.262	6.974	21.756	4.262
2022-07-28 08:45	3015903	8.159	-116.611	283.479	21.727	377.823	403.015	0.195	0.262	***6.256***	21.727	4.285
2022-07-28 09:00	3016803	8.190	-118.377	275.323	21.686	377.335	402.834	0.195	0.262	6.513	21.686	4.892
2022-07-28 09:15	3017703	8.151	-116.158	284.461	21.669	377.464	403.113	0.195	0.262	6.590	21.669	4.103
2022-07-28 09:30	3018603	8.132	-115.047	282.597	21.634	377.26	403.177	0.195	0.262	***6.427***	21.634	4.039
2022-07-28 09:45	3019503	8.136	-115.225	278.644	21.605	377.088	403.235	0.195	0.262	6.511	21.605	4.265
2022-07-28 10:00	3020403	8.181	-117.803	276.875	21.581	376.841	403.17	0.195	0.262	6.550	21.581	11.815
2022-07-28 10:15	3021303	8.117	-114.157	277.621	21.572	377.07	403.485	0.195	0.262	***5.757***	21.572	4.276
2022-07-28 10:30	3022203	8.212	-119.567	278.129	21.568	377.259	403.723	0.196	0.262	***5.660***	21.568	3.913
2022-07-28 10:45	3023103	8.197	-118.697	274.448	21.596	377.646	403.902	0.196	0.263	***5.290***	21.596	3.812

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-28 11:00	3024003	8.203	-119.066	270.647	21.635	378.848	404.867	0.196	0.263	***5.759***	21.635	3.945
2022-07-28 11:15	3024903	8.205	-119.212	273.32	21.664	378.299	404.04	0.196	0.263	6.635	21.664	3.751
2022-07-28 11:30	3025803	8.240	-121.245	272.733	21.705	378.43	403.843	0.196	0.262	7.009	21.705	3.936
2022-07-28 11:45	3026703	8.269	-122.867	271.63	21.76	378.326	403.279	0.195	0.262	7.595	21.76	4.009
2022-07-28 12:00	3027603	8.285	-123.827	265.545	21.807	378.643	403.236	0.195	0.262	7.712	21.807	4.197
2022-07-28 12:15	3028503	8.276	-123.301	271.553	21.84	378.869	403.201	0.195	0.262	7.793	21.84	4.133
2022-07-28 12:30	3029403	8.270	-122.988	274.491	21.859	379.077	403.271	0.195	0.262	7.735	21.859	4.148
2022-07-28 12:45	3030303	8.270	-123.007	273.68	21.879	379.078	403.108	0.195	0.262	7.837	21.879	4.204
2022-07-28 13:00	3031203	8.288	-124.056	261.394	21.959	379.748	403.164	0.195	0.262	7.818	21.959	4.618
2022-07-28 13:15	3032103	8.303	-124.919	270.514	22.02	379.79	402.713	0.195	0.262	8.021	22.02	4.159
2022-07-28 13:30	3033003	8.311	-125.456	268.18	22.097	380.263	402.587	0.195	0.262	8.140	22.097	4.057
2022-07-28 13:45	3033903	8.329	-126.531	267.252	22.24	381.371	402.593	0.195	0.262	8.282	22.24	4.397
2022-07-28 14:00	3034803	8.351	-127.866	260.042	22.448	383.035	402.663	0.195	0.262	8.602	22.448	4.098
2022-07-28 14:15	3035703	8.341	-127.294	265.321	22.516	383.101	402.184	0.195	0.261	8.746	22.516	4.234
2022-07-28 14:30	3036603	8.303	-125.124	272.75	22.474	383.595	403.042	0.195	0.262	8.527	22.474	4.307
2022-07-28 14:45	3037503	8.359	-128.41	268.678	22.643	384.79	402.928	0.195	0.262	8.795	22.643	4.49
2022-07-28 15:00	3038403	8.381	-129.688	255.81	22.758	385.121	402.351	0.195	0.262	8.955	22.758	4.712
2022-07-28 15:15	3039303	8.402	-130.978	265.142	22.963	386.298	401.932	0.195	0.261	9.277	22.963	4.186
2022-07-28 15:30	3040203	8.388	-130.351	261.242	23.343	390.73	403.499	0.195	0.262	9.184	23.343	4.562
2022-07-28 15:45	3041103	8.336	-127.73	255.62	24.128	398.787	405.543	0.196	0.264	8.388	24.128	5.062
2022-07-28 16:00	3042003	8.347	-128.46	244.357	24.338	400.061	405.182	0.196	0.263	7.016	24.338	6.063
2022-07-28 16:15	3042903	8.386	-130.711	254.59	24.323	399.346	404.581	0.196	0.263	9.369	24.323	5.08
2022-07-28 16:30	3043803	8.340	-128.469	250.172	25.38	412.215	409.245	0.198	0.266	8.674	25.38	5.255
2022-07-28 16:45	3044703	8.396	-131.521	258.829	24.9	404.451	405.229	0.196	0.263	9.385	24.9	4.508
2022-07-28 17:00	3045603	8.393	-131.207	249.359	24.639	400.732	403.514	0.195	0.262	9.745	24.639	4.609
2022-07-28 17:15	3046503	8.373	-130.076	258.559	24.672	400.587	403.113	0.195	0.262	9.411	24.672	4.65
2022-07-28 17:30	3047403	8.348	-128.582	260.588	24.469	399.631	403.729	0.195	0.262	9.143	24.469	4.874
2022-07-28 17:45	3048303	8.368	-129.843	260.452	24.754	401.697	403.594	0.195	0.262	8.889	24.754	4.329
2022-07-28 18:00	3049203	8.395	-131.352	254.893	24.697	398.957	401.278	0.194	0.261	9.807	24.697	4.587
2022-07-28 18:15	3050103	8.422	-132.926	261.95	24.689	399.307	401.697	0.194	0.261	10.345	24.689	4.656
2022-07-28 18:30	3051003	8.443	-134.516	257.281	25.568	409.421	405.024	0.196	0.263	10.507	25.568	4.711
2022-07-28 18:45	3051903	8.442	-134.585	256.213	25.833	414.154	407.667	0.197	0.265	9.085	25.833	4.573
2022-07-28 19:00	3052803	8.303	-127.108	242.261	27.114	432.142	415.374	0.201	0.270	9.046	27.114	4.936
2022-07-28 19:15	3053703	8.283	-126.042	246.813	27.429	434.539	415.276	0.201	0.270	7.927	27.429	4.999
2022-07-28 19:30	3054603	8.197	-120.981	261.156	27.213	429.735	412.308	0.200	0.268	7.964	27.213	4.648
2022-07-28 19:45	3055503	8.306	-127.125	251.881	26.806	421.37	407.318	0.197	0.265	9.875	26.806	4.434
2022-07-28 20:00	3056403	8.352	-129.874	248.253	26.933	428.638	413.378	0.200	0.269	9.955	26.933	7.176
2022-07-28 20:15	3057303	8.318	-127.981	258.302	27.123	434.104	417.187	0.202	0.271	8.734	27.123	4.764
2022-07-28 20:30	3058203	8.296	-126.727	260.872	27.191	436.821	419.275	0.203	0.273	7.891	27.191	4.789
2022-07-28 20:45	3059103	8.220	-122.302	266.408	27.162	437.187	419.846	0.203	0.273	7.543	27.162	5.017
2022-07-28 21:00	3060003	8.261	-124.509	255.331	26.755	430.796	416.824	0.202	0.271	8.128	26.755	5.533
2022-07-28 21:15	3060903	8.296	-126.35	265.006	26.285	420.642	410.567	0.199	0.267	8.201	26.285	4.868
2022-07-28 21:30	3061803	8.335	-128.381	262.584	25.819	412.15	405.798	0.196	0.264	9.110	25.819	4.386
2022-07-28 21:45	3062703	8.353	-129.235	259.811	25.334	405.601	403.028	0.195	0.262	9.256	25.334	4.51
2022-07-28 22:00	3063603	8.365	-129.738	252.275	24.955	402.827	403.176	0.195	0.262	9.991	24.955	6.184
2022-07-28 22:15	3064503	8.346	-128.608	267.584	24.801	402.21	403.744	0.195	0.262	9.590	24.801	4.33
2022-07-28 22:30	3065403	8.307	-126.355	269.524	24.799	403.07	404.627	0.196	0.263	9.060	24.799	4.582
2022-07-28 22:45	3066303	8.323	-127.244	275.187	24.707	401.822	404.081	0.196	0.263	8.529	24.707	4.758

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-28 23:00	3067203	8.303	-126.054	264.143	24.588	400.678	403.858	0.196	0.263	8.540	24.588	4.271
2022-07-28 23:15	3068103	8.274	-124.345	274.209	24.554	400.77	404.214	0.196	0.263	8.430	24.554	4.159
2022-07-28 23:30	3069003	8.257	-123.31	273.697	24.485	400.575	404.552	0.196	0.263	7.846	24.485	4.18
2022-07-28 23:45	3069903	8.253	-123.107	273.73	24.458	401.051	405.248	0.196	0.263	7.801	24.458	4.066
2022-07-29 00:00	3070803	8.262	-123.637	271.272	24.489	401.085	405.039	0.196	0.263	7.625	24.489	4.822
2022-07-29 00:15	3071703	8.220	-121.207	275.768	24.441	401.227	405.556	0.196	0.264	7.598	24.441	4.284
2022-07-29 00:30	3072603	8.235	-122.032	277.84	24.378	400.961	405.785	0.197	0.264	7.085	24.378	4.537
2022-07-29 00:45	3073503	8.224	-121.367	278.238	24.31	400.574	405.924	0.197	0.264	7.306	24.31	4.237
2022-07-29 01:00	3074403	8.209	-120.497	270.159	24.237	399.615	405.521	0.196	0.264	7.096	24.237	4.183
2022-07-29 01:15	3075303	8.142	-116.584	279.569	24.175	400.216	406.622	0.197	0.264	6.906	24.175	4.58
2022-07-29 01:30	3076203	8.116	-115.073	276.553	24.113	399.734	406.621	0.197	0.264	6.801	24.113	4.344
2022-07-29 01:45	3077103	8.097	-113.974	276.705	24.059	399.523	406.839	0.197	0.264	***6.411***	24.059	4.066
2022-07-29 02:00	3078003	8.123	-115.426	273.997	23.971	398.541	406.535	0.197	0.264	6.550	23.971	4.908
2022-07-29 02:15	3078903	8.136	-116.167	279.102	23.967	398.882	406.909	0.197	0.264	***6.403***	23.967	4.282
2022-07-29 02:30	3079803	8.128	-115.726	282.649	23.932	398.614	406.915	0.197	0.264	6.833	23.932	4.444
2022-07-29 02:45	3080703	8.124	-115.48	284.828	23.904	398.67	407.193	0.197	0.265	***6.374***	23.904	4.097
2022-07-29 03:00	3081603	8.141	-116.408	272.8	23.891	398.865	407.493	0.197	0.265	6.532	23.891	4.36
2022-07-29 03:15	3082503	8.133	-116.007	281.87	23.926	399.731	408.101	0.198	0.265	***6.245***	23.926	4.483
2022-07-29 03:30	3083403	8.060	-111.773	281.865	23.923	405.904	414.428	0.201	0.269	***5.537***	23.923	4.615
2022-07-29 03:45	3084303	8.051	-111.277	278.63	23.891	405.741	414.525	0.201	0.269	***5.591***	23.891	4.694
2022-07-29 04:00	3085203	8.160	-117.478	270.383	23.834	403.789	412.986	0.200	0.268	***6.031***	23.834	5.196
2022-07-29 04:15	3086103	8.153	-117.109	276.908	23.79	402.669	412.199	0.200	0.268	6.674	23.79	5.336
2022-07-29 04:30	3087003	8.213	-120.499	278.324	23.721	401.295	411.348	0.199	0.267	7.203	23.721	5.494
2022-07-29 04:45	3087903	8.220	-120.869	281.195	23.654	400.681	411.251	0.199	0.267	7.216	23.654	4.963
2022-07-29 05:00	3088803	8.248	-122.44	266.418	23.568	399.956	411.204	0.199	0.267	7.111	23.568	6.14
2022-07-29 05:15	3089703	8.207	-120.084	278.05	23.504	399.284	411.028	0.199	0.267	6.961	23.504	4.935
2022-07-29 05:30	3090603	8.214	-120.459	275.144	23.435	398.459	410.736	0.199	0.267	7.075	23.435	5.833
2022-07-29 05:45	3091503	8.205	-119.898	275.926	23.404	398.401	410.93	0.199	0.267	6.898	23.404	5.08
2022-07-29 06:00	3092403	8.166	-117.607	270.836	23.161	395.836	410.242	0.199	0.267	6.702	23.161	7.003
2022-07-29 06:15	3093303	8.126	-115.287	285.415	23.165	396.416	410.811	0.199	0.267	***6.441***	23.165	5.002
2022-07-29 06:30	3094203	8.168	-117.698	282.959	23.116	396.217	411.01	0.199	0.267	6.934	23.116	4.745
2022-07-29 06:45	3095103	8.204	-119.72	280.842	23.068	396.198	411.375	0.199	0.267	7.045	23.068	4.58
2022-07-29 07:00	3096003	8.239	-121.732	269.236	23.03	396.019	411.504	0.199	0.267	6.784	23.03	8.607
2022-07-29 07:15	3096903	8.179	-118.256	278.46	23	396.196	411.935	0.200	0.268	6.806	23	4.701
2022-07-29 07:30	3097803	8.178	-118.191	278.98	22.968	395.73	411.707	0.199	0.268	6.838	22.968	4.586
2022-07-29 07:45	3098703	8.207	-119.827	275.296	22.954	395.664	411.755	0.200	0.268	6.843	22.954	4.593
2022-07-29 08:00	3099603	8.253	-122.461	269.41	22.933	395.402	411.658	0.199	0.268	6.876	22.933	4.229
2022-07-29 08:15	3100503	8.254	-122.526	276.634	22.919	395.725	412.103	0.200	0.268	6.614	22.919	3.791
2022-07-29 08:30	3101403	8.265	-123.112	278.765	22.901	395.717	412.241	0.200	0.268	***6.351***	22.901	3.695
2022-07-29 08:45	3102303	8.261	-122.883	279.326	22.873	395.601	412.353	0.200	0.268	***5.837***	22.873	3.423
2022-07-29 09:00	3103203	8.213	-120.13	277.087	22.842	394.931	411.909	0.200	0.268	***5.841***	22.842	5.133
2022-07-29 09:15	3104103	8.200	-119.393	282.551	22.829	394.885	411.969	0.200	0.268	6.631	22.829	5.257
2022-07-29 09:30	3105003	8.219	-120.475	276.422	22.821	395.097	412.255	0.200	0.268	6.565	22.821	6.7
2022-07-29 09:45	3105903	8.230	-121.09	271.608	22.824	395.631	412.784	0.200	0.268	***6.403***	22.824	4.383
2022-07-29 10:00	3106803	8.223	-120.709	267.088	22.839	394.854	411.85	0.200	0.268	6.533	22.839	7.861
2022-07-29 10:15	3107703	8.228	-121.017	272.128	22.848	394.633	411.547	0.199	0.268	***6.265***	22.848	4.991
2022-07-29 10:30	3108603	8.288	-124.424	272.614	22.861	394.382	411.181	0.199	0.267	6.544	22.861	4.729
2022-07-29 10:45	3109503	8.298	-124.993	272.23	22.876	394.68	411.368	0.199	0.267	***6.287***	22.876	4.677

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-29 11:00	3110403	8.251	-122.352	267.219	22.902	395.606	412.124	0.200	0.268	***6.214***	22.902	5.713
2022-07-29 11:15	3111303	8.291	-124.64	271.174	22.925	396.878	413.259	0.200	0.269	***6.369***	22.925	4.542
2022-07-29 11:30	3112203	8.310	-125.744	270.404	22.945	396.519	412.717	0.200	0.268	***6.389***	22.945	4.409
2022-07-29 11:45	3113103	8.301	-125.241	270.566	22.966	396.385	412.405	0.200	0.268	6.589	22.966	4.316
2022-07-29 12:00	3114003	8.279	-123.978	260.798	22.998	395.827	411.563	0.199	0.268	6.663	22.998	6.992
2022-07-29 12:15	3114903	8.299	-125.11	270.209	23.018	395.399	410.953	0.199	0.267	6.665	23.018	4.866
2022-07-29 12:30	3115803	8.297	-125.017	273.387	23.038	395.958	411.372	0.199	0.267	6.584	23.038	5.653
2022-07-29 12:45	3116703	8.268	-123.363	274.598	23.065	396.284	411.494	0.199	0.267	***6.443***	23.065	5.275
2022-07-29 13:00	3117603	8.223	-120.828	267.941	23.089	396.873	411.911	0.200	0.268	***6.231***	23.089	5.965
2022-07-29 13:15	3118503	8.249	-122.306	274.321	23.134	398.11	412.821	0.200	0.268	***6.489***	23.134	4.473
2022-07-29 13:30	3119403	8.255	-122.683	272.149	23.199	398.207	412.389	0.200	0.268	6.719	23.199	4.214
2022-07-29 13:45	3120303	8.274	-123.825	270.952	23.288	398.552	412.023	0.200	0.268	6.712	23.288	4.413
2022-07-29 14:00	3121203	8.296	-125.117	260.297	23.39	398.579	411.228	0.199	0.267	7.114	23.39	17.359
2022-07-29 14:15	3122103	8.305	-125.69	268.401	23.457	398.348	410.442	0.199	0.267	7.131	23.457	4.778
2022-07-29 14:30	3123003	8.333	-127.294	269.846	23.49	398.834	410.677	0.199	0.267	7.257	23.49	4.529
2022-07-29 14:45	3123903	8.276	-123.997	274.729	23.492	400.026	411.894	0.200	0.268	7.146	23.492	13.412
2022-07-29 15:00	3124803	8.277	-124.068	265.729	23.5	399.366	411.142	0.199	0.267	7.366	23.5	7.213
2022-07-29 15:15	3125703	8.327	-126.989	271.818	23.54	400.141	411.622	0.199	0.268	7.403	23.54	5.598
2022-07-29 15:30	3126603	8.328	-127.06	270.063	23.587	400.331	411.437	0.199	0.267	7.762	23.587	4.835
2022-07-29 15:45	3127503	8.326	-126.936	269.019	23.638	400.761	411.469	0.199	0.267	7.850	23.638	4.902
2022-07-29 16:00	3128403	8.306	-125.797	266.999	23.682	401.773	412.15	0.200	0.268	7.858	23.682	5.605
2022-07-29 16:15	3129303	8.312	-126.147	271.596	23.704	401.895	412.094	0.200	0.268	7.749	23.704	4.917
2022-07-29 16:30	3130203	8.245	-122.304	278.317	23.692	402.122	412.425	0.200	0.268	7.158	23.692	6.374
2022-07-29 16:45	3131103	8.266	-123.508	277.933	23.686	401.948	412.297	0.200	0.268	7.320	23.686	5.307
2022-07-29 17:00	3132003	8.265	-123.47	259.701	23.699	403.117	413.393	0.200	0.269	7.749	23.699	7.451
2022-07-29 17:15	3132903	8.241	-122.092	274.753	23.707	403.953	414.185	0.201	0.269	7.270	23.707	5.891
2022-07-29 17:30	3133803	8.240	-122.044	273.415	23.699	404.882	415.2	0.201	0.270	7.417	23.699	5.227
2022-07-29 17:45	3134703	8.267	-123.587	272.249	23.717	405.195	415.374	0.201	0.270	7.551	23.717	4.665
2022-07-29 18:00	3135603	8.259	-123.146	270.213	23.753	404.827	414.703	0.201	0.270	7.512	23.753	5.21
2022-07-29 18:15	3136503	8.223	-121.098	280.356	23.718	403.741	413.876	0.201	0.269	7.751	23.718	4.781
2022-07-29 18:30	3137403	8.254	-122.843	278.661	23.703	404.516	414.793	0.201	0.270	7.664	23.703	5.303
2022-07-29 18:45	3138303	8.277	-124.147	278.005	23.712	405.156	415.372	0.201	0.270	7.665	23.712	5.006
2022-07-29 19:00	3139203	8.271	-123.804	269.92	23.73	405.455	415.537	0.201	0.270	7.806	23.73	4.852
2022-07-29 19:15	3140103	8.285	-124.633	276.684	23.767	406.399	416.2	0.202	0.271	7.670	23.767	4.798
2022-07-29 19:30	3141003	8.269	-123.756	274.839	23.846	407.108	416.281	0.202	0.271	7.567	23.846	4.309
2022-07-29 19:45	3141903	8.312	-126.271	270.709	23.955	408.113	416.422	0.202	0.271	6.855	23.955	4.375
2022-07-29 20:00	3142803	8.331	-127.416	260.998	24.067	405.467	412.826	0.200	0.268	7.223	24.067	5.206
2022-07-29 20:15	3143703	8.330	-127.428	267.131	24.283	411.998	417.718	0.202	0.272	7.294	24.283	4.862
2022-07-29 20:30	3144603	8.318	-126.777	269.87	24.38	413.305	418.26	0.203	0.272	6.968	24.38	4.555
2022-07-29 20:45	3145503	8.322	-127.027	268.218	24.421	413.334	417.959	0.203	0.272	7.576	24.421	4.338
2022-07-29 21:00	3146403	8.268	-123.932	266.792	24.412	413.489	418.188	0.203	0.272	7.386	24.412	4.723
2022-07-29 21:15	3147303	8.244	-122.566	276.205	24.387	413.452	418.346	0.203	0.272	7.353	24.387	4.391
2022-07-29 21:30	3148203	8.263	-123.637	273.723	24.357	413.293	418.431	0.203	0.272	7.487	24.357	4.288
2022-07-29 21:45	3149103	8.261	-123.487	271.458	24.319	413.863	419.315	0.203	0.273	7.577	24.319	4.301
2022-07-29 22:00	3150003	8.282	-124.683	264.951	24.26	414	419.938	0.204	0.273	7.412	24.26	4.563
2022-07-29 22:15	3150903	8.272	-124.116	271.072	24.227	414.555	420.768	0.204	0.273	7.637	24.227	4.827
2022-07-29 22:30	3151803	8.268	-123.858	274.057	24.161	414.635	421.391	0.204	0.274	7.545	24.161	4.337
2022-07-29 22:45	3152703	8.274	-124.128	273.701	24.099	413.966	421.215	0.204	0.274	7.518	24.099	4.122

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-29 23:00	3153603	8.268	-123.777	263.561	24.027	413.314	421.137	0.204	0.274	7.283	24.027	8.944
2022-07-29 23:15	3154503	8.247	-122.545	274.104	23.982	412.641	420.822	0.204	0.274	7.356	23.982	4.331
2022-07-29 23:30	3155403	8.265	-123.541	274.855	23.919	412.284	420.972	0.204	0.274	7.472	23.919	9.322
2022-07-29 23:45	3156303	8.259	-123.2	273.682	23.827	411.598	421.032	0.204	0.274	7.479	23.827	4.347
2022-07-30 00:00	3157203	8.273	-123.932	261.454	23.76	411.082	421.055	0.204	0.274	7.609	23.76	8.323
2022-07-30 00:15	3158103	8.217	-120.714	276.145	23.733	410.717	420.902	0.204	0.274	7.503	23.733	4.464
2022-07-30 00:30	3159003	8.241	-122.087	276.345	23.725	410.833	421.092	0.204	0.274	7.275	23.725	4.162
2022-07-30 00:45	3159903	8.205	-120.029	279.676	23.68	410.392	421.007	0.204	0.274	7.313	23.68	3.947
2022-07-30 01:00	3160803	8.272	-123.847	265.393	23.645	410.089	420.984	0.204	0.274	7.254	23.645	5.473
2022-07-30 01:15	3161703	8.242	-122.139	277.573	23.614	410.027	421.181	0.204	0.274	7.432	23.614	4.096
2022-07-30 01:30	3162603	8.251	-122.592	279.414	23.567	409.839	421.369	0.204	0.274	7.550	23.567	3.921
2022-07-30 01:45	3163503	8.249	-122.476	279.209	23.519	409.841	421.768	0.205	0.274	7.416	23.519	5.18
2022-07-30 02:00	3164403	8.300	-125.415	271.863	23.481	409.475	421.706	0.204	0.274	7.564	23.481	3.711
2022-07-30 02:15	3165303	8.296	-125.122	276.953	23.441	409.187	421.744	0.204	0.274	7.521	23.441	3.234
2022-07-30 02:30	3166203	8.273	-123.806	281.903	23.406	409.114	421.963	0.205	0.274	7.318	23.406	3.45
2022-07-30 02:45	3167103	8.281	-124.269	280.425	23.375	409.208	422.313	0.205	0.275	6.616	23.375	3.252
2022-07-30 03:00	3168003	8.269	-123.513	273.873	23.274	408.118	422.033	0.205	0.274	6.796	23.274	4.947
2022-07-30 03:15	3168903	8.257	-122.814	281.293	23.185	407.767	422.408	0.205	0.275	7.253	23.185	4.155
2022-07-30 03:30	3169803	8.233	-121.403	280.592	23.157	407.373	422.24	0.205	0.274	7.088	23.157	3.91
2022-07-30 03:45	3170703	8.228	-121.093	280.98	23.12	406.987	422.144	0.205	0.274	7.173	23.12	4.231
2022-07-30 04:00	3171603	8.272	-123.637	267.584	23.101	407.22	422.549	0.205	0.275	7.059	23.101	8.262
2022-07-30 04:15	3172503	8.244	-121.977	279.369	22.949	399.556	415.85	0.202	0.270	7.223	22.949	5.34
2022-07-30 04:30	3173403	8.245	-122.011	266.601	22.919	397.998	414.474	0.201	0.269	***6.179***	22.919	9.901
2022-07-30 04:45	3174303	8.234	-121.393	269.951	22.9	398.975	415.648	0.201	0.270	***6.420***	22.9	4.787
2022-07-30 05:00	3175203	8.238	-121.622	260.765	22.898	399.785	416.507	0.202	0.271	6.512	22.898	4.766
2022-07-30 05:15	3176103	8.248	-122.192	268.895	22.903	401.979	418.749	0.203	0.272	***6.398***	22.903	3.667
2022-07-30 05:30	3177003	8.230	-121.152	271.589	22.869	400.767	417.771	0.203	0.272	7.011	22.869	4.053
2022-07-30 05:45	3177903	8.250	-122.235	268.923	22.841	400.785	418.025	0.203	0.272	7.286	22.841	4.645
2022-07-30 06:00	3178803	8.278	-123.847	262.45	22.824	401.092	418.481	0.203	0.272	7.262	22.824	13.613
2022-07-30 06:15	3179703	8.251	-122.287	271.818	22.802	401.145	418.728	0.203	0.272	7.106	22.802	4.223
2022-07-30 06:30	3180603	8.246	-122.025	276.257	22.783	401.292	419.04	0.203	0.272	6.798	22.783	4.21
2022-07-30 06:45	3181503	8.252	-122.328	277.528	22.762	401.35	419.269	0.203	0.273	7.003	22.762	4.159
2022-07-30 07:00	3182403	8.242	-121.744	270.285	22.749	401.103	419.122	0.203	0.272	6.881	22.749	4.907
2022-07-30 07:15	3183303	8.234	-121.279	279.426	22.739	401.269	419.377	0.203	0.273	6.745	22.739	4.512
2022-07-30 07:30	3184203	8.241	-121.722	279.013	22.733	401.206	419.365	0.203	0.273	6.919	22.733	4.099
2022-07-30 07:45	3185103	8.251	-122.244	277.848	22.73	401.03	419.205	0.203	0.272	6.843	22.73	4.215
2022-07-30 08:00	3186003	8.264	-123.038	273.031	22.732	401.028	419.19	0.203	0.272	6.760	22.732	5.64
2022-07-30 08:15	3186903	8.249	-122.137	277.266	22.732	401.54	419.722	0.203	0.273	***6.491***	22.732	4.305
2022-07-30 08:30	3187803	8.244	-121.875	278.632	22.727	401.445	419.667	0.203	0.273	***6.284***	22.727	3.966
2022-07-30 08:45	3188703	8.221	-120.542	281.688	22.709	400.978	419.327	0.203	0.273	6.551	22.709	4.17
2022-07-30 09:00	3189603	8.260	-122.731	272.264	22.665	400.297	418.98	0.203	0.272	7.015	22.665	4.097
2022-07-30 09:15	3190503	8.230	-121.04	281.233	22.648	400.166	418.99	0.203	0.272	7.041	22.648	3.953
2022-07-30 09:30	3191403	8.255	-122.471	278.15	22.647	400.85	419.713	0.203	0.273	6.891	22.647	4.272
2022-07-30 09:45	3192303	8.246	-121.927	276.46	22.631	401.754	420.789	0.204	0.274	***6.499***	22.631	3.698
2022-07-30 10:00	3193203	8.248	-122.039	273.682	22.628	400.281	419.278	0.203	0.273	***5.503***	22.628	4.295
2022-07-30 10:15	3194103	8.219	-120.428	274.288	22.646	401.428	420.33	0.204	0.273	***5.608***	22.646	4.295
2022-07-30 10:30	3195003	8.185	-118.468	279.016	22.629	400.49	419.484	0.203	0.273	***5.663***	22.629	4.153
2022-07-30 10:45	3195903	8.221	-120.523	277.85	22.624	400.216	419.243	0.203	0.273	6.503	22.624	4.143

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-30 11:00	3196803	8.279	-123.847	264.286	22.627	400.192	419.193	0.203	0.272	6.968	22.627	4.487
2022-07-30 11:15	3197703	8.235	-121.303	276.634	22.621	399.93	418.964	0.203	0.272	6.994	22.621	3.986
2022-07-30 11:30	3198603	8.257	-122.581	275.635	22.598	399.689	418.908	0.203	0.272	7.061	22.598	4.11
2022-07-30 11:45	3199503	8.267	-123.115	274.598	22.594	399.743	418.997	0.203	0.272	6.962	22.594	4.191
2022-07-30 12:00	3200403	8.289	-124.378	263.089	22.607	399.937	419.094	0.203	0.272	7.106	22.607	17.918
2022-07-30 12:15	3201303	8.271	-123.367	269.853	22.626	400.13	419.135	0.203	0.272	6.708	22.626	4.094
2022-07-30 12:30	3202203	8.307	-125.425	270.585	22.64	400.323	419.223	0.203	0.272	***6.101***	22.64	12.8
2022-07-30 12:45	3203103	8.293	-124.652	270.209	22.663	400.501	419.212	0.203	0.272	***5.972***	22.663	3.874
2022-07-30 13:00	3204003	8.258	-122.666	264.608	22.69	401.752	420.296	0.204	0.273	***5.775***	22.69	4.358
2022-07-30 13:15	3204903	8.284	-124.171	267.011	22.725	402.985	421.29	0.204	0.274	***5.686***	22.725	3.8
2022-07-30 13:30	3205803	8.296	-124.836	267.774	22.764	403.209	421.199	0.204	0.274	***5.891***	22.764	4.108
2022-07-30 13:45	3206703	8.314	-125.928	264.534	22.8	403.497	421.199	0.204	0.274	***5.880***	22.8	4.107
2022-07-30 14:00	3207603	8.279	-123.947	261.549	22.846	402.243	419.499	0.203	0.273	***6.103***	22.846	3.718
2022-07-30 14:15	3208503	8.312	-125.823	263.874	22.898	402.117	418.936	0.203	0.272	***6.214***	22.898	4.106
2022-07-30 14:30	3209403	8.347	-127.881	263.423	22.952	402.254	418.631	0.203	0.272	6.621	22.952	3.909
2022-07-30 14:45	3210303	8.338	-127.358	265.886	22.98	402.663	418.819	0.203	0.272	6.995	22.98	4.133
2022-07-30 15:00	3211203	8.293	-124.803	266.289	23.005	403.382	419.358	0.203	0.273	6.645	23.005	4.149
2022-07-30 15:15	3212103	8.362	-128.741	267.371	23.033	403.949	419.72	0.203	0.273	7.014	23.033	3.982
2022-07-30 15:30	3213003	8.366	-128.987	265.846	23.073	404.106	419.546	0.203	0.273	7.331	23.073	4.568
2022-07-30 15:45	3213903	8.358	-128.548	266.065	23.117	404.371	419.454	0.203	0.273	7.336	23.117	3.638
2022-07-30 16:00	3214803	8.331	-127.022	259.883	23.159	404.285	419.017	0.203	0.272	7.426	23.159	6.961
2022-07-30 16:15	3215703	8.358	-128.601	266.306	23.2	404.432	418.835	0.203	0.272	7.332	23.2	4.079
2022-07-30 16:30	3216603	8.351	-128.212	269.038	23.251	404.871	418.861	0.203	0.272	7.289	23.251	3.857
2022-07-30 16:45	3217503	8.372	-129.411	269.427	23.3	404.819	418.404	0.203	0.272	7.487	23.3	4.199
2022-07-30 17:00	3218403	8.344	-127.854	255.994	23.35	405.541	418.735	0.203	0.272	7.586	23.35	5.085
2022-07-30 17:15	3219303	8.371	-129.395	266.988	23.401	406.577	419.387	0.203	0.273	7.419	23.401	4.16
2022-07-30 17:30	3220203	8.372	-129.495	267.643	23.452	406.958	419.355	0.203	0.273	7.484	23.452	3.989
2022-07-30 17:45	3221103	8.391	-130.627	268.337	23.484	407.309	419.456	0.203	0.273	7.511	23.484	3.763
2022-07-30 18:00	3222003	8.359	-128.798	258.672	23.492	406.446	418.496	0.203	0.272	7.949	23.492	24.17
2022-07-30 18:15	3222903	8.392	-130.687	266.494	23.518	406.666	418.509	0.203	0.272	7.840	23.518	10.149
2022-07-30 18:30	3223803	8.334	-127.363	273.301	23.52	407.131	418.972	0.203	0.272	7.715	23.52	3.77
2022-07-30 18:45	3224703	8.320	-126.548	274.243	23.524	407.493	419.313	0.203	0.273	7.646	23.524	3.667
2022-07-30 19:00	3225603	8.321	-126.591	269.155	23.5	406.742	418.74	0.203	0.272	7.664	23.5	3.276
2022-07-30 19:15	3226503	8.323	-126.727	274.226	23.519	407.365	419.224	0.203	0.272	7.562	23.519	2.869
2022-07-30 19:30	3227403	8.263	-123.305	280.315	23.508	406.882	418.817	0.203	0.272	7.493	23.508	3.513
2022-07-30 19:45	3228303	8.288	-124.693	281.431	23.489	406.265	418.339	0.203	0.272	7.763	23.489	3.287
2022-07-30 20:00	3229203	8.300	-125.38	277.502	23.469	406.544	418.789	0.203	0.272	7.737	23.469	4.399
2022-07-30 20:15	3230103	8.296	-125.127	279.195	23.455	406.833	419.201	0.203	0.272	7.605	23.455	3.948
2022-07-30 20:30	3231003	8.278	-124.128	279.421	23.436	406.874	419.399	0.203	0.273	7.775	23.436	3.892
2022-07-30 20:45	3231903	8.285	-124.478	279.49	23.428	406.692	419.284	0.203	0.273	7.437	23.428	3.931
2022-07-30 21:00	3232803	8.286	-124.588	269.496	23.43	406.843	419.416	0.203	0.273	7.230	23.43	3.894
2022-07-30 21:15	3233703	8.277	-124.059	276.293	23.434	407.574	420.137	0.204	0.273	7.157	23.434	5.223
2022-07-30 21:30	3234603	8.273	-123.842	274.7	23.444	408.308	420.813	0.204	0.274	6.754	23.444	3.497
2022-07-30 21:45	3235503	8.305	-125.69	273.217	23.455	408.228	420.643	0.204	0.273	***6.435***	23.455	3.612
2022-07-30 22:00	3236403	8.277	-124.047	270.557	23.44	407.006	419.505	0.203	0.273	7.030	23.44	4.898
2022-07-30 22:15	3237303	8.240	-121.918	277.161	23.406	407.118	419.902	0.204	0.273	7.410	23.406	3.906
2022-07-30 22:30	3238203	8.264	-123.279	277.335	23.349	406.78	420.022	0.204	0.273	7.556	23.349	4.404
2022-07-30 22:45	3239103	8.268	-123.46	277.094	23.285	406.676	420.448	0.204	0.273	7.292	23.285	4.104

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-30 23:00	3240003	8.274	-123.765	272.509	23.216	405.973	420.294	0.204	0.273	7.364	23.216	5.89
2022-07-30 23:15	3240903	8.264	-123.186	278.529	23.174	405.739	420.398	0.204	0.273	7.526	23.174	4.195
2022-07-30 23:30	3241803	8.246	-122.139	277.478	23.135	405.775	420.761	0.204	0.273	6.972	23.135	3.813
2022-07-30 23:45	3242703	8.263	-123.11	277.333	23.115	405.933	421.091	0.204	0.274	6.920	23.115	3.733
2022-07-31 00:00	3243603	8.266	-123.27	271.904	23.08	405.476	420.914	0.204	0.274	6.621	23.08	4.383
2022-07-31 00:15	3244503	8.219	-120.585	279.173	23.053	405.389	421.049	0.204	0.274	6.732	23.053	3.971
2022-07-31 00:30	3245403	8.223	-120.809	279.903	23.021	405.04	420.949	0.204	0.274	6.914	23.021	4.162
2022-07-31 00:45	3246303	8.224	-120.847	281.681	22.995	404.96	421.087	0.204	0.274	6.873	22.995	3.809
2022-07-31 01:00	3247203	8.247	-122.154	272.583	22.942	404.138	420.67	0.204	0.273	7.015	22.942	5.256
2022-07-31 01:15	3248103	8.259	-122.812	280.043	22.919	404.473	421.212	0.204	0.274	7.011	22.919	4.357
2022-07-31 01:30	3249003	8.258	-122.745	277.94	22.909	404.443	421.271	0.204	0.274	6.571	22.909	3.517
2022-07-31 01:45	3249903	8.202	-119.524	278.379	22.868	403.982	421.13	0.204	0.274	***6.402***	22.868	4.048
2022-07-31 02:00	3250803	8.273	-123.546	266.151	22.818	403.35	420.888	0.204	0.274	6.854	22.818	26.883
2022-07-31 02:15	3251703	8.231	-121.179	278.515	22.8	403.433	421.131	0.204	0.274	6.759	22.8	4.022
2022-07-31 02:30	3252603	8.238	-121.543	279.45	22.768	403.168	421.125	0.204	0.274	6.793	22.768	3.801
2022-07-31 02:45	3253503	8.229	-120.99	281.729	22.737	402.994	421.201	0.204	0.274	6.646	22.737	3.725
2022-07-31 03:00	3254403	8.234	-121.262	270.685	22.713	402.658	421.049	0.204	0.274	6.579	22.713	4.373
2022-07-31 03:15	3255303	8.204	-119.579	281.429	22.684	402.619	421.257	0.204	0.274	6.528	22.684	3.817
2022-07-31 03:30	3256203	8.240	-121.582	278.703	22.657	402.5	421.355	0.204	0.274	6.779	22.657	3.785
2022-07-31 03:45	3257103	8.203	-119.493	279.545	22.591	401.517	420.881	0.204	0.274	***5.156***	22.591	3.832
2022-07-31 04:00	3258003	8.233	-121.15	264.634	22.473	396.156	416.25	0.202	0.271	6.598	22.473	4.198
2022-07-31 04:15	3258903	8.231	-121.019	267.896	22.486	397.835	417.906	0.203	0.272	***6.383***	22.486	3.565
2022-07-31 04:30	3259803	8.200	-119.25	271.358	22.496	398.57	418.592	0.203	0.272	***5.597***	22.496	3.589
2022-07-31 04:45	3260703	8.199	-119.207	272.557	22.499	399.237	419.263	0.203	0.273	***5.163***	22.499	3.361
2022-07-31 05:00	3261603	8.166	-117.338	268.132	22.489	400.318	420.487	0.204	0.273	***4.815***	22.489	3.38
2022-07-31 05:15	3262503	8.151	-116.47	276.508	22.457	402.446	422.995	0.205	0.275	***4.701***	22.457	3.459
2022-07-31 05:30	3263403	8.172	-117.629	275.652	22.421	400.409	421.156	0.204	0.274	***6.003***	22.421	3.723
2022-07-31 05:45	3264303	8.190	-118.659	275.606	22.396	399.714	420.636	0.204	0.273	***6.102***	22.396	3.547
2022-07-31 06:00	3265203	8.230	-120.938	273.22	22.373	399.055	420.134	0.204	0.273	***6.185***	22.373	3.868
2022-07-31 06:15	3266103	8.195	-118.885	278.415	22.34	398.922	420.277	0.204	0.273	6.686	22.34	4.461
2022-07-31 06:30	3267003	8.207	-119.6	278.858	22.315	398.643	420.189	0.204	0.273	***6.468***	22.315	3.642
2022-07-31 06:45	3267903	8.197	-119.016	280.399	22.294	398.499	420.214	0.204	0.273	***6.277***	22.294	3.637
2022-07-31 07:00	3268803	8.219	-120.254	272.164	22.264	397.971	419.911	0.204	0.273	6.512	22.264	3.706
2022-07-31 07:15	3269703	8.212	-119.865	278.67	22.246	398.111	420.219	0.204	0.273	***6.349***	22.246	3.705
2022-07-31 07:30	3270603	8.224	-120.504	276.941	22.232	398.161	420.385	0.204	0.273	***5.985***	22.232	3.689
2022-07-31 07:45	3271503	8.210	-119.717	277.156	22.215	398.196	420.565	0.204	0.273	***5.852***	22.215	3.352
2022-07-31 08:00	3272403	8.216	-120.034	274.03	22.195	397.395	419.894	0.204	0.273	***6.026***	22.195	4.431
2022-07-31 08:15	3273303	8.214	-119.939	279.822	22.185	397.803	420.403	0.204	0.273	***5.889***	22.185	3.57
2022-07-31 08:30	3274203	8.193	-118.737	281.388	22.169	397.756	420.492	0.204	0.273	***5.908***	22.169	3.559
2022-07-31 08:45	3275103	8.195	-118.849	281.266	22.154	397.697	420.557	0.204	0.273	***6.125***	22.154	3.529
2022-07-31 09:00	3276003	8.217	-120.091	267.882	22.138	397.292	420.265	0.204	0.273	***6.207***	22.138	4.058
2022-07-31 09:15	3276903	8.212	-119.77	277.876	22.126	398.111	421.233	0.204	0.274	***5.807***	22.126	3.636
2022-07-31 09:30	3277803	8.242	-121.491	275.101	22.123	398.145	421.294	0.204	0.274	***5.972***	22.123	3.588
2022-07-31 09:45	3278703	8.226	-120.611	274.44	22.116	398.861	422.11	0.205	0.274	***5.561***	22.116	3.468
2022-07-31 10:00	3279603	8.199	-119.016	273.301	22.093	397.234	420.586	0.204	0.273	***5.308***	22.093	3.759
2022-07-31 10:15	3280503	8.198	-118.995	274.548	22.102	397.328	420.61	0.204	0.273	***5.038***	22.102	3.499
2022-07-31 10:30	3281403	8.207	-119.493	275.923	22.117	397.463	420.623	0.204	0.273	***4.737***	22.117	3.262
2022-07-31 10:45	3282303	8.230	-120.84	272.237	22.148	397.636	420.545	0.204	0.273	***5.202***	22.148	3.233

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-31 11:00	3283203	8.211	-119.77	268.242	22.176	398.56	421.287	0.204	0.274	***5.451***	22.176	3.607
2022-07-31 11:15	3284103	8.265	-122.843	270.805	22.21	399.726	422.229	0.205	0.274	***5.571***	22.21	3.435
2022-07-31 11:30	3285003	8.273	-123.305	267.634	22.237	399.873	422.15	0.205	0.274	***5.680***	22.237	3.724
2022-07-31 11:45	3285903	8.258	-122.497	268.578	22.271	399.867	421.858	0.205	0.274	***5.895***	22.271	3.474
2022-07-31 12:00	3286803	8.247	-121.863	264.775	22.308	399.079	420.71	0.204	0.273	***5.894***	22.308	3.921
2022-07-31 12:15	3287703	8.273	-123.394	268.339	22.351	398.756	420.005	0.204	0.273	***5.975***	22.351	3.672
2022-07-31 12:30	3288603	8.280	-123.813	268.852	22.399	399.104	419.97	0.204	0.273	***6.069***	22.399	3.267
2022-07-31 12:45	3289503	8.274	-123.484	269.35	22.444	399.544	420.05	0.204	0.273	***6.064***	22.444	3.352
2022-07-31 13:00	3290403	8.248	-122.006	264.098	22.504	400.562	420.615	0.204	0.273	***5.887***	22.504	3.534
2022-07-31 13:15	3291303	8.285	-124.145	269.186	22.566	401.897	421.493	0.204	0.274	***6.330***	22.566	3.126
2022-07-31 13:30	3292203	8.295	-124.731	266.382	22.653	402.482	421.372	0.204	0.274	***6.179***	22.653	3.244
2022-07-31 13:45	3293103	8.312	-125.763	264.942	22.733	402.64	420.86	0.204	0.274	6.589	22.733	3.389
2022-07-31 14:00	3294003	8.320	-126.252	259.523	22.816	402.192	419.7	0.203	0.273	6.891	22.816	3.677
2022-07-31 14:15	3294903	8.355	-128.305	263.492	22.879	401.8	418.767	0.203	0.272	7.221	22.879	3.469
2022-07-31 14:30	3295803	8.357	-128.424	264.737	22.901	401.957	418.746	0.203	0.272	7.270	22.901	3.597
2022-07-31 14:45	3296703	8.363	-128.784	266.515	22.935	402.421	418.943	0.203	0.272	7.289	22.935	3.347
2022-07-31 15:00	3297603	8.326	-126.674	262.865	22.974	403.038	419.262	0.203	0.273	7.431	22.974	3.686
2022-07-31 15:15	3298503	8.363	-128.801	265.314	23.027	403.961	419.777	0.204	0.273	7.695	23.027	3.475
2022-07-31 15:30	3299403	8.361	-128.744	264.723	23.099	404.416	419.657	0.203	0.273	7.611	23.099	3.379
2022-07-31 15:45	3300303	8.389	-130.346	262.965	23.169	404.822	419.491	0.203	0.273	7.856	23.169	3.734
2022-07-31 16:00	3301203	8.365	-129.015	261.01	23.202	404.493	418.881	0.203	0.272	8.115	23.202	3.606
2022-07-31 16:15	3302103	8.364	-128.956	266.892	23.211	404.663	418.981	0.203	0.272	7.881	23.211	3.591
2022-07-31 16:30	3303003	8.313	-126.028	271.162	23.21	405.073	419.414	0.203	0.273	7.817	23.21	3.3
2022-07-31 16:45	3303903	8.297	-125.096	272.49	23.186	404.949	419.483	0.203	0.273	7.934	23.186	3.369
2022-07-31 17:00	3304803	8.299	-125.201	266.034	23.159	404.559	419.305	0.203	0.273	7.705	23.159	3.574
2022-07-31 17:15	3305703	8.267	-123.379	274.553	23.15	405.175	420.02	0.204	0.273	7.387	23.15	3.435
2022-07-31 17:30	3306603	8.267	-123.339	270.893	23.133	405.032	420.011	0.204	0.273	7.452	23.133	3.158
2022-07-31 17:45	3307503	8.269	-123.482	271.873	23.122	405.462	420.546	0.204	0.273	7.218	23.122	3.387
2022-07-31 18:00	3308403	8.264	-123.16	267.953	23.119	405.223	420.326	0.204	0.273	7.266	23.119	3.465
2022-07-31 18:15	3309303	8.290	-124.681	271.88	23.139	404.917	419.845	0.204	0.273	6.976	23.139	3.225
2022-07-31 18:30	3310203	8.284	-124.316	273.036	23.163	405.42	420.166	0.204	0.273	7.070	23.163	2.936
2022-07-31 18:45	3311103	8.272	-123.68	273.21	23.207	406.066	420.464	0.204	0.273	6.682	23.207	2.837
2022-07-31 19:00	3312003	8.246	-122.192	263.581	23.243	406.82	420.942	0.204	0.274	***6.137***	23.243	3.032
2022-07-31 19:15	3312903	8.292	-124.855	268.873	23.283	408.693	422.553	0.205	0.275	***6.239***	23.283	3.088
2022-07-31 19:30	3313803	8.291	-124.836	268.306	23.332	409.114	422.577	0.205	0.275	***6.337***	23.332	3.125
2022-07-31 19:45	3314703	8.305	-125.597	267.87	23.363	409.293	422.507	0.205	0.275	6.511	23.363	3.061
2022-07-31 20:00	3315603	8.287	-124.609	264.146	23.383	408.453	421.467	0.204	0.274	***6.491***	23.383	4.014
2022-07-31 20:15	3316503	8.277	-124.037	270.189	23.397	409.28	422.206	0.205	0.274	***6.356***	23.397	3.438
2022-07-31 20:30	3317403	8.221	-120.809	275.423	23.396	410.098	423.055	0.205	0.275	***6.339***	23.396	3.376
2022-07-31 20:45	3318303	8.190	-119.05	278.088	23.383	410.707	423.795	0.206	0.275	6.594	23.383	3.502
2022-07-31 21:00	3319203	8.226	-121.109	266.706	23.376	410.195	423.327	0.205	0.275	6.868	23.376	3.518
2022-07-31 21:15	3320103	8.194	-119.271	273.983	23.345	410.29	423.686	0.205	0.275	7.057	23.345	3.524
2022-07-31 21:30	3321003	8.230	-121.286	272.268	23.301	410.108	423.866	0.206	0.276	7.082	23.301	3.681
2022-07-31 21:45	3321903	8.221	-120.692	269.801	23.052	404.82	420.463	0.204	0.273	7.056	23.052	4.111
2022-07-31 22:00	3322803	8.208	-119.929	270.209	23.011	405.559	421.577	0.204	0.274	6.878	23.011	3.573
2022-07-31 22:15	3323703	8.191	-118.959	276.257	22.99	405.672	421.865	0.205	0.274	6.674	22.99	3.631
2022-07-31 22:30	3324603	8.175	-118.043	279.099	22.967	405.866	422.262	0.205	0.274	***6.318***	22.967	3.51
2022-07-31 22:45	3325503	8.161	-117.235	279.025	22.962	406.281	422.734	0.205	0.275	***5.991***	22.962	3.307

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-07-31 23:00	3326403	8.165	-117.421	268.182	22.949	406.575	423.153	0.205	0.275	***5.960***	22.949	3.838
2022-07-31 23:15	3327303	8.138	-115.864	279.254	22.909	406.685	423.603	0.205	0.275	***6.269***	22.909	3.604
2022-07-31 23:30	3328203	8.151	-116.611	277.166	22.876	406.77	423.966	0.206	0.276	***6.335***	22.876	3.597
2022-07-31 23:45	3329103	8.160	-117.104	275.809	22.846	406.503	423.948	0.206	0.276	***6.371***	22.846	3.549
2022-08-01 00:00	3330003	8.190	-118.809	271.622	22.812	405.975	423.679	0.205	0.275	***6.389***	22.812	3.832
2022-08-01 00:15	3330903	8.187	-118.625	279.35	22.794	406.129	423.99	0.206	0.276	***6.015***	22.794	3.465
2022-08-01 00:30	3331803	8.163	-117.269	275.714	22.757	405.342	423.486	0.205	0.275	***6.409***	22.757	3.424
2022-08-01 00:45	3332703	8.176	-117.981	277.349	22.722	405.029	423.45	0.205	0.275	***6.418***	22.722	3.432
2022-08-01 01:00	3333603	8.212	-120.025	267.894	22.693	404.573	423.221	0.205	0.275	6.532	22.693	3.598
2022-08-01 01:15	3334503	8.167	-117.438	278.787	22.672	404.718	423.551	0.205	0.275	***6.405***	22.672	3.545
2022-08-01 01:30	3335403	8.192	-118.849	276.891	22.644	404.265	423.314	0.205	0.275	***6.282***	22.644	3.838
2022-08-01 01:45	3336303	8.202	-119.395	276.689	22.604	404.11	423.493	0.205	0.275	***6.241***	22.604	3.232
2022-08-01 02:00	3337203	8.197	-119.133	271.832	22.554	403.54	423.321	0.205	0.275	***6.076***	22.554	3.609
2022-08-01 02:15	3338103	8.162	-117.078	279.18	22.532	403.538	423.505	0.205	0.275	***6.253***	22.532	3.743
2022-08-01 02:30	3339003	8.171	-117.598	280.804	22.496	403.355	423.618	0.205	0.275	***6.445***	22.496	3.35
2022-08-01 02:45	3339903	8.155	-116.687	282.771	22.451	402.922	423.54	0.205	0.275	***6.479***	22.451	3.268
2022-08-01 03:00	3340803	8.195	-118.961	271.913	22.406	402.611	423.597	0.205	0.275	***6.281***	22.406	4.751
2022-08-01 03:15	3341703	8.168	-117.383	283.2	22.372	402.855	424.143	0.206	0.276	***6.178***	22.372	3.371
2022-08-01 03:30	3342603	8.198	-119.057	278.908	22.332	402.483	424.091	0.206	0.276	***6.438***	22.332	3.254
2022-08-01 03:45	3343503	8.173	-117.614	279.626	22.297	402.126	424.019	0.206	0.276	***6.233***	22.297	3.284
2022-08-01 04:00	3344403	8.185	-118.31	275.611	22.271	401.521	423.604	0.205	0.275	***6.143***	22.271	3.349
2022-08-01 04:15	3345303	8.166	-117.226	282.957	22.238	401.513	423.874	0.206	0.276	***5.956***	22.238	3.283
2022-08-01 04:30	3346203	8.158	-116.735	282.437	22.192	400.97	423.691	0.205	0.275	***6.189***	22.192	3.39
2022-08-01 04:45	3347103	8.150	-116.279	282.671	22.159	400.948	423.951	0.206	0.276	***6.031***	22.159	3.365
2022-08-01 05:00	3348003	8.195	-118.849	266.794	22.124	400.381	423.654	0.205	0.275	***6.424***	22.124	3.62
2022-08-01 05:15	3348903	8.169	-117.3	280.079	22.096	400.225	423.726	0.205	0.275	***6.350***	22.096	3.545
2022-08-01 05:30	3349803	8.175	-117.65	280.778	22.05	399.912	423.789	0.206	0.275	***6.219***	22.05	3.487
2022-08-01 05:45	3350703	8.146	-116	281.696	22.015	399.54	423.695	0.205	0.275	***6.081***	22.015	3.366
2022-08-01 06:00	3351603	8.207	-119.431	275.783	21.974	398.991	423.467	0.205	0.275	***6.101***	21.974	3.949
2022-08-01 06:15	3352503	8.160	-116.777	281.829	21.952	399.085	423.756	0.205	0.275	***6.105***	21.952	3.478
2022-08-01 06:30	3353403	8.171	-117.4	281.028	21.92	398.896	423.832	0.206	0.275	***6.164***	21.92	3.303
2022-08-01 06:45	3354303	8.172	-117.393	284.139	21.897	398.568	423.678	0.205	0.275	***6.363***	21.897	3.797
2022-08-01 07:00	3355203	8.184	-118.079	273.389	21.881	398.318	423.551	0.205	0.275	***6.247***	21.881	3.507
2022-08-01 07:15	3356103	8.183	-118.063	280.697	21.88	399.728	425.059	0.206	0.276	***6.013***	21.88	3.135
2022-08-01 07:30	3357003	8.175	-117.583	281.734	21.876	399.969	425.349	0.206	0.276	***5.491***	21.876	3.31
2022-08-01 07:45	3357903	8.163	-116.889	277.063	21.865	400.506	426.014	0.207	0.277	***5.211***	21.865	3.396
2022-08-01 08:00	3358803	8.161	-116.766	274.655	21.838	398.066	423.652	0.205	0.275	***5.081***	21.838	4.555
2022-08-01 08:15	3359703	8.155	-116.432	277.933	21.825	398.192	423.897	0.206	0.276	***5.561***	21.825	3.546
2022-08-01 08:30	3360603	8.158	-116.603	276.987	21.813	398.03	423.83	0.206	0.275	***5.652***	21.813	3.283
2022-08-01 08:45	3361503	8.160	-116.67	278.062	21.802	397.98	423.873	0.206	0.276	***5.733***	21.802	3.26
2022-08-01 09:00	3362403	8.179	-117.803	271.811	21.796	397.328	423.23	0.205	0.275	***5.638***	21.796	3.516
2022-08-01 09:15	3363303	8.184	-118.046	277.063	21.793	398.461	424.459	0.206	0.276	***5.586***	21.793	3.56
2022-08-01 09:30	3364203	8.183	-118.02	275.192	21.793	398.851	424.874	0.206	0.276	***5.503***	21.793	3.19
2022-08-01 09:45	3365103	8.180	-117.855	274.255	21.799	398.849	424.82	0.206	0.276	***5.438***	21.799	3.32
2022-08-01 10:00	3366003	8.170	-117.249	272.254	21.803	397.904	423.783	0.206	0.275	***5.317***	21.803	3.919
2022-08-01 10:15	3366903	8.226	-120.487	274.228	21.823	397.314	422.977	0.205	0.275	***5.113***	21.823	3.704
2022-08-01 10:30	3367803	8.186	-118.177	272.781	21.859	397.919	423.311	0.205	0.275	***5.084***	21.859	2.987
2022-08-01 10:45	3368703	8.209	-119.517	270.745	21.893	397.626	422.712	0.205	0.275	***5.176***	21.893	3.375

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-01 11:00	3369603	8.230	-120.733	260.772	21.918	397.681	422.559	0.205	0.275	***6.140***	21.918	3.495
2022-08-01 11:15	3370503	8.237	-121.133	266.275	21.942	397.717	422.389	0.205	0.275	6.590	21.942	3.432
2022-08-01 11:30	3371403	8.257	-122.271	264.813	21.975	398.295	422.719	0.205	0.275	6.617	21.975	3.222
2022-08-01 11:45	3372303	8.257	-122.306	263.256	22.046	399.437	423.324	0.205	0.275	6.893	22.046	3.392
2022-08-01 12:00	3373203	8.257	-122.409	259.923	22.202	401.84	424.53	0.206	0.276	6.851	22.202	4.744
2022-08-01 12:15	3374103	8.259	-122.59	261.018	22.405	405.994	427.168	0.207	0.278	7.044	22.405	3.609
2022-08-01 12:30	3375003	8.252	-122.237	258.19	22.567	408.649	428.564	0.208	0.279	7.075	22.567	3.355
2022-08-01 12:45	3375903	8.250	-122.18	256.349	22.7	411.175	430.067	0.209	0.280	7.015	22.7	3.577
2022-08-01 13:00	3376803	8.223	-120.723	251.016	22.823	413.035	430.958	0.209	0.280	6.899	22.823	4.234
2022-08-01 13:15	3377703	8.232	-121.329	254.256	23.025	415.447	431.737	0.209	0.281	6.814	23.025	3.495
2022-08-01 13:30	3378603	8.237	-121.706	248.143	23.27	418.947	433.268	0.210	0.282	6.695	23.27	3.46
2022-08-01 13:45	3379503	8.249	-122.457	248.439	23.464	421.611	434.353	0.211	0.282	6.659	23.464	3.458
2022-08-01 14:00	3380403	8.256	-122.962	247.115	23.666	423.26	434.327	0.211	0.282	7.275	23.666	3.593
2022-08-01 14:15	3381303	8.268	-123.701	250.372	23.819	424.93	434.738	0.211	0.283	7.025	23.819	3.418
2022-08-01 14:30	3382203	8.274	-124.121	254.986	24.02	427.064	435.208	0.211	0.283	7.150	24.02	3.436
2022-08-01 14:45	3383103	8.271	-124.054	252.53	24.218	429.001	435.505	0.211	0.283	7.134	24.218	3.435
2022-08-01 15:00	3384003	8.242	-122.39	246.014	24.336	430.692	436.229	0.212	0.284	6.958	24.336	3.509
2022-08-01 15:15	3384903	8.250	-122.957	248.56	24.479	432.776	437.122	0.212	0.284	7.092	24.479	3.427
2022-08-01 15:30	3385803	8.253	-123.143	247.511	24.609	434.459	437.728	0.212	0.285	7.127	24.609	3.466
2022-08-01 15:45	3386703	8.283	-124.95	243.67	24.792	436.068	437.81	0.212	0.285	7.374	24.792	3.631
2022-08-01 16:00	3387603	8.267	-124.114	244.29	24.953	438.313	438.704	0.213	0.285	7.377	24.953	3.623
2022-08-01 16:15	3388503	8.290	-125.511	242.242	25.129	440.378	439.298	0.213	0.286	8.268	25.129	3.841
2022-08-01 16:30	3389403	8.257	-123.57	255.784	25.099	441.282	440.448	0.214	0.286	7.991	25.099	3.607
2022-08-01 16:45	3390303	8.224	-121.653	255.229	25.028	440.932	440.697	0.214	0.286	7.399	25.028	3.826
2022-08-01 17:00	3391203	8.222	-121.505	245.418	24.953	440.134	440.53	0.214	0.286	7.375	24.953	4.176
2022-08-01 17:15	3392103	8.250	-123.069	248.057	24.808	437.867	439.477	0.213	0.286	7.764	24.808	3.9
2022-08-01 17:30	3393003	8.174	-118.692	258.49	24.751	437.494	439.587	0.213	0.286	7.253	24.751	3.895
2022-08-01 17:45	3393903	8.203	-120.323	261.561	24.691	437.302	439.894	0.214	0.286	7.100	24.691	3.737
2022-08-01 18:00	3394803	8.206	-120.471	256.304	24.631	436.27	439.368	0.213	0.286	6.981	24.631	4.361
2022-08-01 18:15	3395703	8.210	-120.685	265.85	24.554	434.378	438.113	0.213	0.285	7.871	24.554	3.74
2022-08-01 18:30	3396603	8.260	-123.599	259.241	24.632	435.576	438.658	0.213	0.285	8.074	24.632	3.708
2022-08-01 18:45	3397503	8.230	-121.841	262.1	24.615	436.056	439.286	0.213	0.286	7.590	24.615	3.593
2022-08-01 19:00	3398403	8.248	-122.859	253.152	24.557	435.669	439.388	0.213	0.286	7.431	24.557	5.05
2022-08-01 19:15	3399303	8.254	-123.165	259.518	24.499	434.657	438.859	0.213	0.285	7.137	24.499	3.803
2022-08-01 19:30	3400203	8.250	-122.921	258.846	24.425	433.285	438.095	0.213	0.285	7.354	24.425	3.434
2022-08-01 19:45	3401103	8.236	-122.075	260.531	24.405	433.533	438.519	0.213	0.285	7.041	24.405	3.68
2022-08-01 20:00	3402003	8.255	-123.188	258.266	24.379	432.774	437.968	0.213	0.285	6.955	24.379	4.208
2022-08-01 20:15	3402903	8.221	-121.231	264.379	24.346	432.773	438.251	0.213	0.285	6.760	24.346	3.545
2022-08-01 20:30	3403803	8.203	-120.146	267.77	24.246	431.167	437.466	0.212	0.284	7.064	24.246	3.446
2022-08-01 20:45	3404703	8.191	-119.376	267.381	24.048	428.548	436.489	0.212	0.284	6.940	24.048	3.448
2022-08-01 21:00	3405603	8.152	-117.078	258.347	23.888	427.886	437.173	0.212	0.284	***6.275***	23.888	3.604
2022-08-01 21:15	3406503	8.096	-113.842	264.105	23.855	429.021	438.612	0.213	0.285	***5.860***	23.855	3.549
2022-08-01 21:30	3407403	8.081	-112.991	270.952	23.855	428.489	438.068	0.213	0.285	***5.568***	23.855	3.414
2022-08-01 21:45	3408303	8.197	-119.588	263.33	23.746	425.804	436.257	0.212	0.284	7.153	23.746	3.657
2022-08-01 22:00	3409203	8.234	-121.639	256.433	23.619	423.751	435.234	0.211	0.283	7.080	23.619	4.077
2022-08-01 22:15	3410103	8.184	-118.761	266.42	23.567	423.104	435.006	0.211	0.283	6.973	23.567	3.778
2022-08-01 22:30	3411003	8.205	-119.96	268.387	23.493	422.324	434.844	0.211	0.283	7.059	23.493	3.592
2022-08-01 22:45	3411903	8.208	-120.089	268.645	23.433	422.077	435.101	0.211	0.283	6.854	23.433	3.515

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-01 23:00	3412803	8.225	-121.019	260.102	23.372	421.618	435.148	0.211	0.283	6.952	23.372	3.57
2022-08-01 23:15	3413703	8.211	-120.249	267.851	23.331	421.844	435.731	0.211	0.283	6.701	23.331	3.392
2022-08-01 23:30	3414603	8.190	-119.009	270.411	23.28	421.424	435.743	0.211	0.283	6.836	23.28	3.433
2022-08-01 23:45	3415503	8.208	-120.015	271.219	23.227	420.333	435.068	0.211	0.283	6.729	23.227	3.527
2022-08-02 00:00	3416403	8.220	-120.68	263.192	23.152	419.787	435.149	0.211	0.283	6.867	23.152	8.967
2022-08-02 00:15	3417303	8.203	-119.665	274.152	23.113	419.538	435.221	0.211	0.283	6.714	23.113	3.482
2022-08-02 00:30	3418203	8.169	-117.681	275.056	23.051	419.067	435.273	0.211	0.283	6.830	23.051	3.306
2022-08-02 00:45	3419103	8.191	-118.914	274.312	22.98	418.198	434.984	0.211	0.283	6.778	22.98	3.513
2022-08-02 01:00	3420003	8.215	-120.263	265.881	22.913	417.564	434.901	0.211	0.283	6.721	22.913	3.961
2022-08-02 01:15	3420903	8.170	-117.705	277.585	22.863	417.387	435.144	0.211	0.283	6.528	22.863	3.357
2022-08-02 01:30	3421803	8.193	-118.985	275.215	22.797	416.349	434.633	0.211	0.283	6.835	22.797	3.317
2022-08-02 01:45	3422703	8.212	-120.025	277.278	22.735	415.701	434.502	0.211	0.282	6.613	22.735	3.09
2022-08-02 02:00	3423603	8.208	-119.786	266.458	22.677	414.958	434.226	0.211	0.282	6.595	22.677	3.25
2022-08-02 02:15	3424503	8.176	-117.922	273.165	22.644	414.701	434.246	0.211	0.282	***6.290***	22.644	3.12
2022-08-02 02:30	3425403	8.193	-118.866	276.932	22.585	414.067	434.091	0.211	0.282	6.579	22.585	3.042
2022-08-02 02:45	3426303	8.171	-117.636	276.624	22.528	413.469	433.956	0.211	0.282	***6.333***	22.528	3.112
2022-08-02 03:00	3427203	8.214	-120.053	268.361	22.46	412.619	433.66	0.210	0.282	***6.440***	22.46	3.571
2022-08-02 03:15	3428103	8.172	-117.602	276.925	22.414	412.377	433.804	0.211	0.282	6.644	22.414	3.216
2022-08-02 03:30	3429003	8.177	-117.86	275.478	22.344	411.509	433.501	0.210	0.282	6.524	22.344	3.188
2022-08-02 03:45	3429903	8.181	-118.11	274.896	22.292	410.844	433.25	0.210	0.282	***6.405***	22.292	3.109
2022-08-02 04:00	3430803	8.200	-119.128	269.965	22.228	409.794	432.7	0.210	0.281	***6.242***	22.228	3.282
2022-08-02 04:15	3431703	8.163	-117.011	277.473	22.207	409.92	433.016	0.210	0.281	***6.243***	22.207	3.048
2022-08-02 04:30	3432603	8.174	-117.65	279.309	22.166	409.304	432.729	0.210	0.281	***6.349***	22.166	3.363
2022-08-02 04:45	3433503	8.176	-117.724	281.059	22.146	409.151	432.741	0.210	0.281	***6.230***	22.146	2.913
2022-08-02 05:00	3434403	8.196	-118.861	269.064	22.102	408.211	432.128	0.210	0.281	***6.236***	22.102	3.442
2022-08-02 05:15	3435303	8.178	-117.819	280.458	22.074	408.22	432.382	0.210	0.281	***6.223***	22.074	3.17
2022-08-02 05:30	3436203	8.166	-117.133	278.312	22.037	407.552	432.003	0.210	0.281	***6.181***	22.037	3.174
2022-08-02 05:45	3437103	8.178	-117.819	278.265	21.998	406.935	431.683	0.209	0.281	***6.348***	21.998	3.101
2022-08-02 06:00	3438003	8.186	-118.246	274.343	21.973	406.089	431.008	0.209	0.280	***6.156***	21.973	3.837
2022-08-02 06:15	3438903	8.173	-117.478	278.897	21.954	406.209	431.305	0.209	0.280	***6.247***	21.954	3.321
2022-08-02 06:30	3439803	8.166	-117.08	280.613	21.927	405.818	431.123	0.209	0.280	***6.166***	21.927	3.137
2022-08-02 06:45	3440703	8.161	-116.792	282.156	21.898	405.488	431.022	0.209	0.280	***6.166***	21.898	3.1
2022-08-02 07:00	3441603	8.154	-116.374	274.779	21.863	403.909	429.656	0.208	0.279	***5.893***	21.863	3.871
2022-08-02 07:15	3442503	8.142	-115.674	280.661	21.835	402.859	428.782	0.208	0.279	***6.009***	21.835	3.617
2022-08-02 07:30	3443403	8.144	-115.812	279.159	21.809	404.781	431.053	0.209	0.280	***5.778***	21.809	3.168
2022-08-02 07:45	3444303	8.153	-116.279	279.986	21.794	404.684	431.08	0.209	0.280	***5.860***	21.794	3.084
2022-08-02 08:00	3445203	8.171	-117.285	274.905	21.757	403.872	430.542	0.209	0.280	***6.029***	21.757	3.377
2022-08-02 08:15	3446103	8.148	-116.003	278.923	21.738	404.079	430.927	0.209	0.280	***5.740***	21.738	3.346
2022-08-02 08:30	3447003	8.132	-115.094	279.955	21.725	403.818	430.765	0.209	0.280	***5.617***	21.725	3.284
2022-08-02 08:45	3447903	8.131	-115.004	280.134	21.718	403.853	430.866	0.209	0.280	***5.755***	21.718	3.198
2022-08-02 09:00	3448803	8.165	-116.949	273	21.716	403.38	430.373	0.209	0.280	***5.953***	21.716	3.431
2022-08-02 09:15	3449703	8.180	-117.779	276.51	21.716	403.609	430.62	0.209	0.280	***6.195***	21.716	3.369
2022-08-02 09:30	3450603	8.174	-117.45	276.145	21.71	403.708	430.775	0.209	0.280	***6.119***	21.71	3.207
2022-08-02 09:45	3451503	8.202	-119.033	273.353	21.691	402.726	429.9	0.209	0.279	***6.146***	21.691	3.386
2022-08-02 10:00	3452403	8.206	-119.29	267.634	21.681	402.529	429.777	0.208	0.279	6.611	21.681	3.43
2022-08-02 10:15	3453303	8.202	-119.045	273.751	21.676	402.358	429.638	0.208	0.279	6.528	21.676	3.303
2022-08-02 10:30	3454203	8.202	-119.014	276.486	21.67	402.244	429.563	0.208	0.279	6.847	21.67	3.112
2022-08-02 10:45	3455103	8.201	-118.976	276.145	21.629	401.742	429.386	0.208	0.279	6.879	21.629	7.073

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-02 11:00	3456003	8.196	-118.661	266.988	21.605	402.284	430.18	0.209	0.280	***6.359***	21.605	3.438
2022-08-02 11:15	3456903	8.228	-120.497	270.814	21.604	403.375	431.357	0.209	0.280	***5.800***	21.604	3.125
2022-08-02 11:30	3457803	8.219	-119.989	264.315	21.655	403.398	430.931	0.209	0.280	***6.321***	21.655	3.498
2022-08-02 11:45	3458703	8.230	-120.709	262.319	21.795	404.232	430.59	0.209	0.280	***6.340***	21.795	3.593
2022-08-02 12:00	3459603	8.233	-120.931	254.001	21.97	405.253	430.146	0.209	0.280	***6.473***	21.97	6.279
2022-08-02 12:15	3460503	8.233	-120.943	256.294	22.059	406.1	430.267	0.209	0.280	6.501	22.059	3.134
2022-08-02 12:30	3461403	8.228	-120.702	261.077	22.144	406.828	430.297	0.209	0.280	***6.420***	22.144	3.346
2022-08-02 12:45	3462303	8.230	-120.869	260.605	22.25	408.384	431.023	0.209	0.280	***6.387***	22.25	3.324
2022-08-02 13:00	3463203	8.181	-118.067	256.406	22.298	409.211	431.479	0.209	0.280	***6.230***	22.298	8.323
2022-08-02 13:15	3464103	8.209	-119.696	258.95	22.368	410.087	431.79	0.210	0.281	***6.271***	22.368	4.018
2022-08-02 13:30	3465003	8.185	-118.392	259.949	22.415	410.768	432.104	0.210	0.281	***6.242***	22.415	3.768
2022-08-02 13:45	3465903	8.197	-119.069	263.044	22.456	411.151	432.148	0.210	0.281	***6.193***	22.456	35.989
2022-08-02 14:00	3466803	8.189	-118.599	260.855	22.485	411.426	432.184	0.210	0.281	***6.378***	22.485	6.165
2022-08-02 14:15	3467703	8.256	-122.473	264.858	22.54	411.8	432.105	0.210	0.281	***6.476***	22.54	9.651
2022-08-02 14:30	3468603	8.281	-123.942	259.835	22.592	412.31	432.184	0.210	0.281	6.858	22.592	8.717
2022-08-02 14:45	3469503	8.266	-123.117	262.276	22.676	413.524	432.737	0.210	0.281	6.870	22.676	4.317
2022-08-02 15:00	3470403	8.262	-122.905	252.051	22.739	413.979	432.662	0.210	0.281	7.117	22.739	4.447
2022-08-02 15:15	3471303	8.274	-123.575	262.181	22.774	414.596	433.004	0.210	0.281	6.972	22.774	4.492
2022-08-02 15:30	3472203	8.250	-122.182	262.036	22.715	411.167	429.933	0.209	0.279	7.836	22.715	3.779
2022-08-02 15:45	3473103	8.255	-122.437	262.436	22.624	408.847	428.285	0.208	0.278	7.857	22.624	3.594
2022-08-02 16:00	3474003	8.281	-123.911	243.93	22.523	408.375	428.654	0.208	0.279	7.925	22.523	6.671
2022-08-02 16:15	3474903	8.263	-122.888	263.554	22.542	409.137	429.294	0.208	0.279	7.691	22.542	4.331
2022-08-02 16:30	3475803	8.251	-122.216	266.89	22.554	409.623	429.696	0.208	0.279	7.383	22.554	3.795
2022-08-02 16:45	3476704	8.224	-120.656	271.587	22.54	408.513	428.654	0.208	0.279	7.488	22.54	3.489
2022-08-02 17:00	3477604	8.245	-121.853	262.968	22.524	409.603	429.932	0.209	0.279	7.397	22.524	4.18
2022-08-02 17:15	3478504	8.233	-121.15	271.191	22.532	409.115	429.353	0.208	0.279	7.163	22.532	3.517
2022-08-02 17:30	3479404	8.236	-121.317	268.285	22.512	408.543	428.924	0.208	0.279	7.341	22.512	4.124
2022-08-02 17:45	3480304	8.284	-124.09	267.548	22.529	409.312	429.589	0.208	0.279	7.452	22.529	3.336
2022-08-02 18:00	3481204	8.254	-122.361	266.649	22.547	409.278	429.4	0.208	0.279	7.405	22.547	4.356
2022-08-02 18:15	3482104	8.276	-123.599	268.392	22.551	409.022	429.09	0.208	0.279	7.561	22.551	8.269
2022-08-02 18:30	3483004	8.248	-122.013	271.868	22.528	408.729	428.98	0.208	0.279	7.625	22.528	3.909
2022-08-02 18:45	3483904	8.253	-122.275	273.089	22.517	408.787	429.141	0.208	0.279	7.795	22.517	3.564
2022-08-02 19:00	3484804	8.256	-122.478	265.626	22.506	408.557	428.99	0.208	0.279	7.542	22.506	5.13
2022-08-02 19:15	3485704	8.229	-120.888	272.547	22.497	408.536	429.044	0.208	0.279	6.886	22.497	3.498
2022-08-02 19:30	3486604	8.212	-119.92	272.664	22.481	408.938	429.606	0.208	0.279	7.001	22.481	3.681
2022-08-02 19:45	3487504	8.216	-120.163	270.623	22.448	408.476	429.405	0.208	0.279	7.194	22.448	3.839
2022-08-02 20:00	3488404	8.240	-121.512	259.516	22.407	408.126	429.393	0.208	0.279	7.284	22.407	8.708
2022-08-02 20:15	3489304	8.211	-119.863	273.349	22.4	408.51	429.857	0.209	0.279	7.086	22.4	3.984
2022-08-02 20:30	3490204	8.235	-121.243	273.742	22.406	408.455	429.75	0.208	0.279	6.925	22.406	4.148
2022-08-02 20:45	3491104	8.198	-119.114	278.83	22.403	408.678	430.007	0.209	0.280	7.050	22.403	3.964
2022-08-02 21:00	3492004	8.193	-118.806	268.172	22.392	408.287	429.687	0.208	0.279	6.765	22.392	5.667
2022-08-02 21:15	3492904	8.175	-117.757	275.282	22.379	408.397	429.917	0.209	0.279	7.067	22.379	3.195
2022-08-02 21:30	3493804	8.196	-118.973	272.955	22.362	408.474	430.144	0.209	0.280	7.286	22.362	3.475
2022-08-02 21:45	3494704	8.202	-119.281	274.338	22.318	408.312	430.357	0.209	0.280	7.115	22.318	3.421
2022-08-02 22:00	3495604	8.252	-122.149	265.969	22.249	407.586	430.187	0.209	0.280	7.282	22.249	15.456
2022-08-02 22:15	3496504	8.225	-120.564	270.17	22.196	407.165	430.209	0.209	0.280	7.199	22.196	2.669
2022-08-02 22:30	3497404	8.244	-121.601	271.689	22.125	406.558	430.179	0.209	0.280	7.327	22.125	3.228
2022-08-02 22:45	3498304	8.235	-121.083	275.373	22.091	406.361	430.265	0.209	0.280	7.117	22.091	2.984

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-02 23:00	3499204	8.212	-119.76	274.805	22.061	406.335	430.499	0.209	0.280	6.958	22.061	4.543
2022-08-02 23:15	3500104	8.186	-118.277	280.565	22.026	406.322	430.796	0.209	0.280	6.910	22.026	3.354
2022-08-02 23:30	3501004	8.190	-118.465	274.946	21.981	405.867	430.703	0.209	0.280	7.044	21.981	3.551
2022-08-02 23:45	3501904	8.187	-118.318	274.679	21.952	406.087	431.188	0.209	0.280	***6.426***	21.952	3.415
2022-08-03 00:00	3502804	8.198	-118.89	268.161	21.914	405.264	430.652	0.209	0.280	6.625	21.914	5.198
2022-08-03 00:15	3503704	8.185	-118.139	276.179	21.898	405.594	431.136	0.209	0.280	***6.206***	21.898	3.454
2022-08-03 00:30	3504604	8.142	-115.719	279.264	21.875	405.224	430.943	0.209	0.280	***6.228***	21.875	3.333
2022-08-03 00:45	3505504	8.156	-116.46	278.429	21.836	404.889	430.93	0.209	0.280	***6.282***	21.836	3.46
2022-08-03 01:00	3506404	8.156	-116.47	272.299	21.798	404.043	430.364	0.209	0.280	***6.341***	21.798	3.82
2022-08-03 01:15	3507304	8.168	-117.154	279.068	21.769	404.354	430.949	0.209	0.280	***6.451***	21.769	3.225
2022-08-03 01:30	3508204	8.173	-117.426	276.281	21.745	404.3	431.101	0.209	0.280	***6.168***	21.745	3.243
2022-08-03 01:45	3509104	8.169	-117.192	276.281	21.727	404.171	431.123	0.209	0.280	***6.108***	21.727	3.226
2022-08-03 02:00	3510004	8.164	-116.868	271.453	21.703	403.744	430.874	0.209	0.280	***6.032***	21.703	7.834
2022-08-03 02:15	3510904	8.150	-116.057	277.452	21.687	403.794	431.067	0.209	0.280	***6.024***	21.687	3.618
2022-08-03 02:30	3511804	8.149	-115.988	280.239	21.66	403.704	431.217	0.209	0.280	***5.902***	21.66	3.488
2022-08-03 02:45	3512704	8.150	-116.038	280.527	21.635	403.494	431.208	0.209	0.280	***6.129***	21.635	3.366
2022-08-03 03:00	3513604	8.144	-115.702	272.028	21.612	403.477	431.397	0.209	0.280	***5.470***	21.612	3.397
2022-08-03 03:15	3514504	8.067	-111.334	288.753	21.577	404.469	432.759	0.210	0.281	***5.022***	21.577	10.761
2022-08-03 03:30	3515404	8.099	-113.108	277.344	21.538	403.295	431.85	0.210	0.281	***5.805***	21.538	4.783
2022-08-03 03:45	3516304	8.133	-115.035	274.891	21.503	402.87	431.709	0.209	0.281	***6.314***	21.503	3.009
2022-08-03 04:00	3517204	8.158	-116.436	265.447	21.473	402.153	431.2	0.209	0.280	***6.083***	21.473	7.004
2022-08-03 04:15	3518104	8.139	-115.361	275.833	21.479	402.794	431.836	0.210	0.281	***4.957***	21.479	4.878
2022-08-03 04:30	3519004	8.091	-112.607	277.626	21.435	402.703	432.129	0.210	0.281	***4.116***	21.435	3.691
2022-08-03 04:45	3519904	8.106	-113.485	278.467	21.39	402.087	431.862	0.210	0.281	***5.757***	21.39	3.488
2022-08-03 05:00	3520804	8.100	-113.089	277.554	21.341	401.019	431.153	0.209	0.280	***6.199***	21.341	3.698
2022-08-03 05:15	3521704	8.123	-114.415	282.916	21.32	401.497	431.848	0.210	0.281	***6.348***	21.32	3.389
2022-08-03 05:30	3522604	8.125	-114.532	279.516	21.303	402.359	432.93	0.210	0.281	***5.660***	21.303	3.313
2022-08-03 05:45	3523504	8.115	-113.928	279.376	21.28	402.501	433.286	0.210	0.282	***4.885***	21.28	3.403
2022-08-03 06:00	3524404	8.104	-113.277	271.556	21.256	401.084	431.978	0.210	0.281	***5.248***	21.256	7.354
2022-08-03 06:15	3525304	8.072	-111.463	278.756	21.233	401.064	432.16	0.210	0.281	***5.116***	21.233	4.311
2022-08-03 06:30	3526204	8.090	-112.486	280.172	21.201	400.588	431.931	0.210	0.281	***5.547***	21.201	3.384
2022-08-03 06:45	3527104	8.098	-112.939	280.081	21.172	399.974	431.522	0.209	0.280	***5.264***	21.172	3.678
2022-08-03 07:00	3528004	8.113	-113.74	273.601	21.129	398.986	430.839	0.209	0.280	***5.893***	21.129	3.916
2022-08-03 07:15	3528904	8.106	-113.363	281.04	21.094	399.1	431.274	0.209	0.280	***5.863***	21.094	3.977
2022-08-03 07:30	3529804	8.095	-112.722	273.06	21.081	399.07	431.355	0.209	0.280	***5.908***	21.081	3.541
2022-08-03 07:45	3530704	8.099	-112.927	270.991	21.083	399.207	431.49	0.209	0.280	***5.683***	21.083	3.509
2022-08-03 08:00	3531604	8.091	-112.498	269.911	21.086	399.44	431.71	0.209	0.281	***4.804***	21.086	4.333
2022-08-03 08:15	3532504	8.054	-110.395	275.497	21.074	399.38	431.754	0.209	0.281	***4.138***	21.074	3.669
2022-08-03 08:30	3533404	8.071	-111.363	276.546	21.057	398.96	431.45	0.209	0.280	***4.432***	21.057	3.851
2022-08-03 08:45	3534304	8.097	-112.81	277.342	21.052	398.612	431.124	0.209	0.280	***4.614***	21.052	3.957
2022-08-03 09:00	3535204	8.126	-114.486	268.363	21.037	397.954	430.543	0.209	0.280	***5.548***	21.037	5.014
2022-08-03 09:15	3536104	8.106	-113.332	278.861	21.031	397.603	430.218	0.209	0.280	***6.329***	21.031	3.758
2022-08-03 09:30	3537004	8.127	-114.532	276.145	21.028	397.493	430.125	0.209	0.280	6.560	21.028	3.635
2022-08-03 09:45	3537904	8.125	-114.393	274.479	21.027	397.294	429.917	0.209	0.279	6.690	21.027	3.259
2022-08-03 10:00	3538804	8.160	-116.405	264.36	21.035	397.56	430.133	0.209	0.280	6.799	21.035	21.642
2022-08-03 10:15	3539704	8.150	-115.85	275.12	21.038	397.569	430.113	0.209	0.280	***6.465***	21.038	10.039
2022-08-03 10:30	3540604	8.141	-115.342	278.386	21.043	397.504	430.001	0.209	0.280	6.603	21.043	4.199
2022-08-03 10:45	3541504	8.093	-112.567	282.978	21.032	397.205	429.78	0.208	0.279	***6.283***	21.032	4.119

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-03 11:00	3542404	8.084	-112.047	277.232	21.026	397.189	429.815	0.208	0.279	***6.298***	21.026	10.611
2022-08-03 11:15	3543304	8.097	-112.798	283.574	21.018	397.122	429.811	0.208	0.279	***6.452***	21.018	4.218
2022-08-03 11:30	3544204	8.098	-112.886	282.32	21.011	397.373	430.15	0.209	0.280	***6.429***	21.011	4.315
2022-08-03 11:45	3545104	8.111	-113.626	281.786	21.017	397.497	430.229	0.209	0.280	***6.421***	21.017	4.274
2022-08-03 12:00	3546004	8.124	-114.372	269.055	21.032	397.695	430.312	0.209	0.280	6.565	21.032	6.892
2022-08-03 12:15	3546904	8.116	-113.866	280.658	21.028	397.905	430.575	0.209	0.280	***6.322***	21.028	5.08
2022-08-03 12:30	3547804	8.127	-114.491	280.606	21.028	397.935	430.602	0.209	0.280	6.500	21.028	3.867
2022-08-03 12:45	3548704	8.131	-114.729	281.753	21.046	397.85	430.353	0.209	0.280	***6.147***	21.046	4.331
2022-08-03 13:00	3549604	8.143	-115.409	270.693	21.059	397.986	430.384	0.209	0.280	6.607	21.059	4.922
2022-08-03 13:15	3550504	8.139	-115.242	281.512	21.084	398.125	430.311	0.209	0.280	6.884	21.084	4.491
2022-08-03 13:30	3551404	8.163	-116.572	278.238	21.114	398.793	430.762	0.209	0.280	6.771	21.114	4.373
2022-08-03 13:45	3552304	8.160	-116.42	278.451	21.15	399.677	431.396	0.209	0.280	6.859	21.15	3.913
2022-08-03 14:00	3553204	8.169	-116.963	273.153	21.193	400.739	432.163	0.210	0.281	6.935	21.193	5.072
2022-08-03 14:15	3554104	8.154	-116.107	280.306	21.222	401.046	432.233	0.210	0.281	7.011	21.222	4.156
2022-08-03 14:30	3555004	8.173	-117.238	279.609	21.256	401.38	432.293	0.210	0.281	6.965	21.256	4.104
2022-08-03 14:45	3555904	8.155	-116.205	280.43	21.29	402.143	432.811	0.210	0.281	7.036	21.29	4.915
2022-08-03 15:00	3556804	8.175	-117.352	273.573	21.345	402.357	432.555	0.210	0.281	7.018	21.345	4.23
2022-08-03 15:15	3557704	8.194	-118.449	276.627	21.399	402.482	432.211	0.210	0.281	7.290	21.399	4.399
2022-08-03 15:30	3558604	8.191	-118.325	277.173	21.434	403.197	432.668	0.210	0.281	7.357	21.434	3.958
2022-08-03 15:45	3559504	8.182	-117.795	275.981	21.463	403.772	433.023	0.210	0.281	7.001	21.463	4.736
2022-08-03 16:00	3560404	8.192	-118.423	266.268	21.49	403.94	432.965	0.210	0.281	7.011	21.49	5.761
2022-08-03 16:15	3561304	8.178	-117.626	274.288	21.506	403.972	432.857	0.210	0.281	6.783	21.506	4.23
2022-08-03 16:30	3562204	8.178	-117.631	276.591	21.513	404.136	432.971	0.210	0.281	6.757	21.513	5.995
2022-08-03 16:45	3563104	8.169	-117.118	279.729	21.517	404.045	432.842	0.210	0.281	7.011	21.517	5.462
2022-08-03 17:00	3564004	8.174	-117.4	273.847	21.518	403.78	432.549	0.210	0.281	6.649	21.518	5.288
2022-08-03 17:15	3564904	8.172	-117.238	280.275	21.508	403.673	432.524	0.210	0.281	7.517	21.508	4.289
2022-08-03 17:30	3565804	8.168	-117.047	279.786	21.482	403.584	432.655	0.210	0.281	7.094	21.482	3.962
2022-08-03 17:45	3566704	8.179	-117.65	279.197	21.469	403.368	432.536	0.210	0.281	7.250	21.469	4.311
2022-08-03 18:00	3567604	8.190	-118.27	276.283	21.439	403.274	432.701	0.210	0.281	7.234	21.439	5.498
2022-08-03 18:15	3568504	8.174	-117.321	281.224	21.431	403.418	432.929	0.210	0.281	7.071	21.431	4.197
2022-08-03 18:30	3569404	8.165	-116.842	283.372	21.427	403.621	433.184	0.210	0.282	6.823	21.427	3.969
2022-08-03 18:45	3570304	8.161	-116.62	284.576	21.427	403.816	433.394	0.210	0.282	6.826	21.427	3.901
2022-08-03 19:00	3571204	8.148	-115.876	277.352	21.423	404.259	433.9	0.211	0.282	6.819	21.423	6.063
2022-08-03 19:15	3572104	8.141	-115.471	285.045	21.419	404.779	434.494	0.211	0.282	6.698	21.419	4.056
2022-08-03 19:30	3573004	8.129	-114.794	283.469	21.409	404.331	434.101	0.211	0.282	6.814	21.409	3.937
2022-08-03 19:45	3573904	8.133	-114.975	281.979	21.396	404.093	433.969	0.211	0.282	6.673	21.396	3.544
2022-08-03 20:00	3574804	8.183	-117.846	273.334	21.372	403.167	433.185	0.210	0.282	6.742	21.372	5.584
2022-08-03 20:15	3575704	8.162	-116.627	280.349	21.357	403.36	433.525	0.210	0.282	6.738	21.357	3.864
2022-08-03 20:30	3576604	8.171	-117.149	279.693	21.34	403.252	433.562	0.210	0.282	6.702	21.34	3.41
2022-08-03 20:45	3577504	8.171	-117.145	281.333	21.317	402.923	433.415	0.210	0.282	6.718	21.317	3.592
2022-08-03 21:00	3578404	8.174	-117.292	276.448	21.289	402.573	433.281	0.210	0.282	6.804	21.289	4.123
2022-08-03 21:15	3579304	8.160	-116.465	282.091	21.267	402.533	433.439	0.210	0.282	6.514	21.267	3.838
2022-08-03 21:30	3580204	8.161	-116.52	281.25	21.245	402.707	433.822	0.211	0.282	6.544	21.245	3.486
2022-08-03 21:45	3581104	8.173	-117.238	279.395	21.228	403.173	434.472	0.211	0.282	6.684	21.228	3.534
2022-08-03 22:00	3582004	8.173	-117.197	271.727	21.201	403.394	434.956	0.211	0.283	6.502	21.201	8.498
2022-08-03 22:15	3582904	8.136	-115.111	278.62	21.19	403.874	435.574	0.211	0.283	6.535	21.19	4.441
2022-08-03 22:30	3583804	8.134	-114.973	281.104	21.159	403.343	435.276	0.211	0.283	***6.223***	21.159	3.683
2022-08-03 22:45	3584704	8.130	-114.753	283.498	21.132	403.022	435.176	0.211	0.283	***6.170***	21.132	3.455

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-03 23:00	3585604	8.150	-115.84	274.55	21.09	402.058	434.512	0.211	0.282	6.558	21.09	3.859
2022-08-03 23:15	3586504	8.148	-115.726	282.683	21.074	403.155	435.84	0.212	0.283	***6.454***	21.074	3.616
2022-08-03 23:30	3587404	8.142	-115.376	282.814	21.044	403.386	436.353	0.212	0.284	***5.839***	21.044	3.724
2022-08-03 23:45	3588304	8.128	-114.591	280.971	21.01	402.942	436.182	0.212	0.284	***6.116***	21.01	3.643
2022-08-04 00:00	3589204	8.148	-115.683	272.361	20.987	402.437	435.845	0.212	0.283	***6.151***	20.987	8.58
2022-08-04 00:15	3590104	8.124	-114.331	281.994	20.977	402.628	436.146	0.212	0.283	***6.270***	20.977	3.742
2022-08-04 00:30	3591004	8.129	-114.584	285.529	20.952	402.461	436.187	0.212	0.284	***5.761***	20.952	3.494
2022-08-04 00:45	3591904	8.132	-114.756	284.769	20.933	402.464	436.358	0.212	0.284	***5.756***	20.933	3.57
2022-08-04 01:00	3592804	8.119	-114.009	274.657	20.897	402.141	436.333	0.212	0.284	***5.217***	20.897	3.74
2022-08-04 01:15	3593704	8.128	-114.52	282.573	20.887	403.73	438.15	0.213	0.285	***5.676***	20.887	5.126
2022-08-04 01:30	3594604	8.102	-113.027	282.692	20.864	404.279	438.953	0.213	0.285	***4.300***	20.864	3.443
2022-08-04 01:45	3595504	8.071	-111.265	281.891	20.838	404.508	439.442	0.213	0.286	***4.037***	20.838	3.299
2022-08-04 02:00	3596404	8.074	-111.406	269.798	20.826	402.941	437.845	0.212	0.285	***4.722***	20.826	8.759
2022-08-04 02:15	3597304	8.060	-110.624	280.062	20.817	402.297	437.231	0.212	0.284	***4.248***	20.817	3.787
2022-08-04 02:30	3598204	8.042	-109.599	283.658	20.781	402.212	437.466	0.212	0.284	***3.767***	20.781	3.239
2022-08-04 02:45	3599104	8.078	-111.635	283.927	20.742	401.675	437.232	0.212	0.284	***4.944***	20.742	3.356
2022-08-04 03:00	3600004	8.124	-114.202	278.51	20.719	401.094	436.813	0.212	0.284	***5.793***	20.719	4.945
2022-08-04 03:15	3600904	8.117	-113.842	286.667	20.7	402.645	438.674	0.213	0.285	***5.684***	20.7	3.469
2022-08-04 03:30	3601804	8.097	-112.708	282.311	20.688	402.732	438.873	0.213	0.285	***4.657***	20.688	3.518
2022-08-04 03:45	3602704	8.073	-111.289	280.847	20.654	403.259	439.765	0.213	0.286	***4.315***	20.654	3.884
2022-08-04 04:00	3603604	8.089	-112.216	274.19	20.636	401.255	437.74	0.212	0.285	***4.790***	20.636	3.548
2022-08-04 04:15	3604504	8.078	-111.561	281.584	20.62	401.599	438.26	0.213	0.285	***3.765***	20.62	3.655
2022-08-04 04:30	3605404	8.068	-111.001	282.101	20.608	401.424	438.184	0.213	0.285	***4.552***	20.608	3.49
2022-08-04 04:45	3606304	8.062	-110.648	285.181	20.575	401.169	438.204	0.213	0.285	***3.906***	20.575	3.544
2022-08-04 05:00	3607204	8.115	-113.659	276.589	20.526	400.096	437.478	0.212	0.284	***5.893***	20.526	5.968
2022-08-04 05:15	3608104	8.118	-113.821	285.105	20.513	401.296	438.908	0.213	0.285	***5.954***	20.513	7.174
2022-08-04 05:30	3609004	8.071	-111.101	280.675	20.485	400.078	437.834	0.212	0.285	***6.044***	20.485	4.466
2022-08-04 05:45	3609904	8.100	-112.741	280.182	20.471	400.839	438.794	0.213	0.285	***5.474***	20.471	4.924
2022-08-04 06:00	3610804	8.089	-112.107	272.295	20.449	400.223	438.324	0.213	0.285	***5.171***	20.449	6.697
2022-08-04 06:15	3611704	8.074	-111.268	274.908	20.408	399.931	438.379	0.213	0.285	***5.526***	20.408	5.222
2022-08-04 06:30	3612604	8.086	-111.914	282.325	20.364	399.433	438.237	0.213	0.285	***6.007***	20.364	4.501
2022-08-04 06:45	3613504	8.102	-112.853	285.05	20.334	399.061	438.1	0.213	0.285	***5.896***	20.334	3.808
2022-08-04 07:00	3614404	8.116	-113.63	275.764	20.31	398.717	437.951	0.213	0.285	***5.912***	20.31	4.579
2022-08-04 07:15	3615304	8.096	-112.476	288.681	20.288	398.84	438.281	0.213	0.285	***5.871***	20.288	3.789
2022-08-04 07:30	3616204	8.104	-112.91	283.341	20.271	398.718	438.305	0.213	0.285	***5.791***	20.271	3.79
2022-08-04 07:45	3617104	8.113	-113.404	283.474	20.255	398.876	438.626	0.213	0.285	***6.096***	20.255	3.582
2022-08-04 08:00	3618004	8.121	-113.862	281.393	20.232	398.399	438.317	0.213	0.285	***5.903***	20.232	4.038
2022-08-04 08:15	3618904	8.107	-113.082	285.188	20.217	398.388	438.446	0.213	0.285	***5.645***	20.217	3.549
2022-08-04 08:30	3619804	8.129	-114.305	284.039	20.208	398.489	438.632	0.213	0.285	***5.866***	20.208	4.05
2022-08-04 08:45	3620704	8.115	-113.502	287.06	20.186	398.069	438.376	0.213	0.285	***5.819***	20.186	3.729
2022-08-04 09:00	3621604	8.155	-115.774	267.994	20.177	397.731	438.09	0.213	0.285	***6.334***	20.177	6.591
2022-08-04 09:15	3622504	8.177	-117.044	279.273	20.174	397.613	437.988	0.213	0.285	6.733	20.174	4.171
2022-08-04 09:30	3623404	8.188	-117.619	280.62	20.185	397.605	437.874	0.212	0.285	6.873	20.185	3.853
2022-08-04 09:45	3624304	8.192	-117.877	279.702	20.198	397.782	437.951	0.213	0.285	7.046	20.198	3.888
2022-08-04 10:00	3625204	8.178	-117.073	272.845	20.215	398.22	438.277	0.213	0.285	6.841	20.215	4.638
2022-08-04 10:15	3626104	8.168	-116.515	278.279	20.216	398.371	438.429	0.213	0.285	6.955	20.216	3.699
2022-08-04 10:30	3627004	8.191	-117.85	279.099	20.211	397.982	438.048	0.213	0.285	6.834	20.211	3.907
2022-08-04 10:45	3627904	8.189	-117.688	280.756	20.212	398.215	438.299	0.213	0.285	7.045	20.212	4.024

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-04 11:00	3628804	8.191	-117.807	272.907	20.2	397.847	438.007	0.213	0.285	6.878	20.2	4.876
2022-08-04 11:15	3629704	8.182	-117.328	280.62	20.197	398.138	438.347	0.213	0.285	7.074	20.197	8.084
2022-08-04 11:30	3630604	8.193	-117.922	278.787	20.185	397.689	437.965	0.213	0.285	7.078	20.185	4.21
2022-08-04 11:45	3631504	8.208	-118.811	277.034	20.199	397.951	438.125	0.213	0.285	7.294	20.199	4.28
2022-08-04 12:00	3632404	8.214	-119.109	262.756	20.208	398.256	438.376	0.213	0.285	7.253	20.208	16.383
2022-08-04 12:15	3633304	8.186	-117.557	277.151	20.214	398.319	438.39	0.213	0.285	7.140	20.214	3.764
2022-08-04 12:30	3634204	8.169	-116.58	276.825	20.221	398.427	438.446	0.213	0.285	***5.639***	20.221	4.653
2022-08-04 12:45	3635104	8.166	-116.391	278.951	20.216	398.329	438.386	0.213	0.285	7.055	20.216	3.768
2022-08-04 13:00	3636004	8.200	-118.361	270.173	20.219	398.087	438.097	0.213	0.285	7.153	20.219	5.514
2022-08-04 13:15	3636904	8.219	-119.402	276.858	20.237	398.345	438.211	0.213	0.285	7.547	20.237	4.074
2022-08-04 13:30	3637804	8.233	-120.223	273.384	20.264	398.613	438.256	0.213	0.285	7.575	20.264	4.043
2022-08-04 13:45	3638704	8.245	-120.952	270.409	20.343	399.061	438.023	0.213	0.285	7.626	20.343	3.539
2022-08-04 14:00	3639604	8.244	-120.933	265.378	20.433	400.539	438.813	0.213	0.285	7.642	20.433	4.624
2022-08-04 14:15	3640504	8.245	-121.031	268.501	20.569	402.209	439.394	0.213	0.286	7.505	20.569	4.75
2022-08-04 14:30	3641404	8.210	-119.059	269.562	20.663	404.161	440.663	0.214	0.286	7.278	20.663	4.636
2022-08-04 14:45	3642304	8.204	-118.78	267.381	20.731	406.254	442.318	0.215	0.288	7.299	20.731	4.315
2022-08-04 15:00	3643204	8.203	-118.771	250.007	20.855	407.78	442.838	0.215	0.288	7.384	20.855	7.394
2022-08-04 15:15	3644104	8.216	-119.524	265.64	20.935	409.074	443.504	0.215	0.288	7.450	20.935	4.344
2022-08-04 15:30	3645004	8.218	-119.669	267.176	20.951	410.622	445.039	0.216	0.289	7.494	20.951	4.242
2022-08-04 15:45	3645904	8.206	-118.98	268.149	21.005	412.113	446.155	0.217	0.290	7.401	21.005	4.313
2022-08-04 16:00	3646804	8.225	-120.101	257.692	21.116	413.751	446.901	0.217	0.290	7.631	21.116	6.989
2022-08-04 16:15	3647704	8.202	-118.811	270.104	21.073	415.873	449.596	0.218	0.292	7.391	21.073	5.034
2022-08-04 16:30	3648604	8.198	-118.53	271.219	21.04	416.015	450.055	0.219	0.293	7.426	21.04	5.254
2022-08-04 16:45	3649504	8.222	-119.936	269.221	21.03	416.599	450.784	0.219	0.293	7.606	21.03	5.341
2022-08-04 17:00	3650404	8.226	-120.127	249.976	21.045	417.227	451.321	0.219	0.293	7.588	21.045	5.235
2022-08-04 17:15	3651304	8.233	-120.556	264.632	21.022	417.078	451.372	0.219	0.293	7.643	21.022	4.752
2022-08-04 17:30	3652204	8.233	-120.54	264.272	21.065	417.491	451.422	0.219	0.293	7.638	21.065	8.948
2022-08-04 17:45	3653104	8.250	-121.572	262.875	21.12	417.791	451.228	0.219	0.293	7.833	21.12	5.308
2022-08-04 18:00	3654004	8.252	-121.682	255.887	21.128	418.039	451.425	0.219	0.293	7.834	21.128	11.347
2022-08-04 18:15	3654904	8.244	-121.171	267.209	21.107	417.841	451.409	0.219	0.293	7.786	21.107	5.353
2022-08-04 18:30	3655804	8.252	-121.629	268.571	21.087	417.659	451.392	0.219	0.293	7.717	21.087	5.228
2022-08-04 18:45	3656704	8.239	-120.931	271.913	21.079	417.512	451.315	0.219	0.293	7.567	21.079	4.901
2022-08-04 19:00	3657604	8.226	-120.156	263.509	21.051	417.281	451.321	0.219	0.293	7.570	21.051	5.342
2022-08-04 19:15	3658504	8.244	-121.195	270.375	21.036	417.01	451.166	0.219	0.293	7.723	21.036	4.994
2022-08-04 19:30	3659404	8.242	-121.059	269.56	20.986	416.642	451.234	0.219	0.293	7.711	20.986	4.788
2022-08-04 19:45	3660304	8.226	-120.103	272.531	20.899	415.793	451.129	0.219	0.293	7.555	20.899	4.246
2022-08-04 20:00	3661204	8.236	-120.64	261.151	20.831	415.548	451.5	0.219	0.293	7.629	20.831	62.123
2022-08-04 20:15	3662104	8.195	-118.251	276.121	20.767	415.145	451.661	0.219	0.294	7.300	20.767	4.749
2022-08-04 20:30	3663004	8.190	-117.996	278.37	20.707	414.556	451.586	0.219	0.294	7.293	20.707	4.475
2022-08-04 20:45	3663904	8.198	-118.401	280.396	20.682	414.314	451.558	0.219	0.294	6.818	20.682	3.984
2022-08-04 21:00	3664804	8.189	-117.896	270.113	20.629	413.417	451.075	0.219	0.293	6.937	20.629	5.825
2022-08-04 21:15	3665704	8.173	-116.968	281.505	20.622	413.47	451.204	0.219	0.293	6.720	20.622	5.938
2022-08-04 21:30	3666604	8.161	-116.258	281.882	20.58	413.056	451.145	0.219	0.293	6.610	20.58	4.291
2022-08-04 21:45	3667504	8.164	-116.448	281.135	20.562	413.068	451.327	0.219	0.293	6.642	20.562	4.586
2022-08-04 22:00	3668404	8.176	-117.128	271.553	20.524	413.047	451.659	0.219	0.294	6.620	20.524	17.629
2022-08-04 22:15	3669304	8.148	-115.502	284.785	20.515	413.167	451.881	0.219	0.294	***6.170***	20.515	4.57
2022-08-04 22:30	3670204	8.152	-115.738	284.986	20.483	412.891	451.875	0.219	0.294	***6.205***	20.483	4.213
2022-08-04 22:45	3671104	8.150	-115.595	285.2	20.466	414.129	453.396	0.220	0.295	***5.939***	20.466	8.861

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-04 23:00	3672004	8.114	-113.537	275.95	20.462	413.54	452.786	0.220	0.294	***5.492***	20.462	4.788
2022-08-04 23:15	3672904	8.089	-112.147	283.357	20.426	413.087	452.631	0.220	0.294	***5.333***	20.426	4.644
2022-08-04 23:30	3673804	8.106	-113.111	281.347	20.417	412.637	452.226	0.220	0.294	***5.824***	20.417	4.369
2022-08-04 23:45	3674704	8.098	-112.617	283.922	20.388	412.153	451.962	0.220	0.294	***6.041***	20.388	4.862
2022-08-05 00:00	3675604	8.130	-114.405	275.196	20.342	411.096	451.246	0.219	0.293	***5.747***	20.342	6.752
2022-08-05 00:15	3676504	8.121	-113.893	283.753	20.314	411.22	451.642	0.219	0.294	***6.160***	20.314	4.733
2022-08-05 00:30	3677404	8.123	-114.012	283.791	20.299	411.656	452.263	0.220	0.294	***5.387***	20.299	4.839
2022-08-05 00:45	3678304	8.123	-113.971	284.569	20.282	410.678	451.349	0.219	0.293	***6.063***	20.282	7.334
2022-08-05 01:00	3679204	8.120	-113.814	273.26	20.252	410.47	451.407	0.219	0.293	***5.702***	20.252	5.941
2022-08-05 01:15	3680104	8.080	-111.563	282.954	20.258	412.502	453.585	0.220	0.295	***5.632***	20.258	20.245
2022-08-05 01:30	3681004	8.073	-111.158	279.767	20.225	410.205	451.371	0.219	0.293	***5.557***	20.225	5.813
2022-08-05 01:45	3681904	8.098	-112.567	280.086	20.194	409.806	451.222	0.219	0.293	***5.600***	20.194	7.438
2022-08-05 02:00	3682804	8.114	-113.463	279.216	20.164	409.22	450.866	0.219	0.293	***5.595***	20.164	10.678
2022-08-05 02:15	3683704	8.111	-113.261	284.07	20.171	409.963	451.621	0.219	0.294	***5.673***	20.171	4.639
2022-08-05 02:30	3684604	8.079	-111.43	287.611	20.136	409.457	451.395	0.219	0.293	***4.748***	20.136	5.473
2022-08-05 02:45	3685504	8.097	-112.464	286.512	20.103	408.752	450.93	0.219	0.293	***5.076***	20.103	4.653
2022-08-05 03:00	3686404	8.113	-113.339	272.297	20.066	408.12	450.588	0.219	0.293	***5.492***	20.066	8.005
2022-08-05 03:15	3687304	8.108	-113.065	286.352	20.057	408.183	450.737	0.219	0.293	***5.967***	20.057	4.479
2022-08-05 03:30	3688204	8.108	-113.037	284.797	20.025	408.217	451.078	0.219	0.293	***5.508***	20.025	4.201
2022-08-05 03:45	3689104	8.099	-112.545	283.791	20.015	408.249	451.215	0.219	0.293	***5.182***	20.015	3.946
2022-08-05 04:00	3690004	8.113	-113.339	275.528	19.974	407.25	450.493	0.219	0.293	***4.911***	19.974	11.858
2022-08-05 04:15	3690904	8.093	-112.166	284.819	19.957	407.176	450.573	0.219	0.293	***5.513***	19.957	4.583
2022-08-05 04:30	3691804	8.112	-113.242	286.402	19.925	406.844	450.517	0.219	0.293	***5.493***	19.925	4.199
2022-08-05 04:45	3692704	8.100	-112.562	288.574	19.898	406.61	450.514	0.219	0.293	***5.383***	19.898	4.427
2022-08-05 05:00	3693604	8.106	-112.889	277.321	19.87	406.132	450.246	0.219	0.293	***5.716***	19.87	6.616
2022-08-05 05:15	3694504	8.095	-112.231	289.63	19.846	406.017	450.351	0.219	0.293	***5.718***	19.846	4.713
2022-08-05 05:30	3695404	8.102	-112.607	286.297	19.834	406.092	450.546	0.219	0.293	***5.713***	19.834	4.075
2022-08-05 05:45	3696304	8.086	-111.744	286.292	19.816	406.743	451.445	0.219	0.293	***5.186***	19.816	4.322
2022-08-05 06:00	3697204	8.099	-112.445	275.091	19.785	405.59	450.459	0.219	0.293	***5.128***	19.785	7.907
2022-08-05 06:15	3698104	8.100	-112.491	285.749	19.764	405.536	450.596	0.219	0.293	***5.416***	19.764	4.246
2022-08-05 06:30	3699004	8.087	-111.761	287.153	19.744	405.459	450.706	0.219	0.293	***5.346***	19.744	4.146
2022-08-05 06:45	3699904	8.076	-111.108	290.517	19.723	405.215	450.635	0.219	0.293	***5.194***	19.723	4.081
2022-08-05 07:00	3700804	8.058	-110.087	281.39	19.685	404.612	450.324	0.219	0.293	***5.233***	19.685	4.908
2022-08-05 07:15	3701704	8.077	-111.167	290.126	19.676	404.556	450.352	0.219	0.293	***5.475***	19.676	4.276
2022-08-05 07:30	3702604	8.064	-110.428	288.626	19.662	404.472	450.392	0.219	0.293	***5.721***	19.662	4.655
2022-08-05 07:45	3703504	8.066	-110.552	286.385	19.665	405.054	451.013	0.219	0.293	***5.708***	19.665	3.703
2022-08-05 08:00	3704404	8.061	-110.25	274.684	19.664	404.732	450.658	0.219	0.293	***5.156***	19.664	14.015
2022-08-05 08:15	3705304	8.066	-110.54	284.628	19.652	404.53	450.554	0.219	0.293	***4.794***	19.652	7.414
2022-08-05 08:30	3706204	8.079	-111.277	286.357	19.637	404.256	450.387	0.219	0.293	***5.148***	19.637	5.178
2022-08-05 08:45	3707104	8.088	-111.78	286.514	19.626	404.108	450.332	0.219	0.293	***5.204***	19.626	4.178
2022-08-05 09:00	3708004	8.087	-111.711	278.787	19.621	390.239	434.92	0.211	0.283	***5.184***	19.621	4.709
2022-08-05 09:15	3708904	8.079	-111.279	282.802	19.631	405.89	452.274	0.220	0.294	***5.360***	19.631	7.278
2022-08-05 09:30	3709804	8.103	-112.643	279.891	19.639	405.886	452.186	0.220	0.294	***4.940***	19.639	11.294
2022-08-05 09:45	3710704	8.072	-110.855	280.327	19.643	404.636	450.754	0.219	0.293	***5.475***	19.643	7.731
2022-08-05 10:00	3711604	8.116	-113.354	272.347	19.627	403.888	450.08	0.219	0.293	***6.028***	19.627	20.729
2022-08-05 10:15	3712504	8.111	-113.037	279.707	19.623	403.845	450.071	0.219	0.293	***6.081***	19.623	10.052
2022-08-05 10:30	3713404	8.116	-113.325	281.083	19.629	403.945	450.119	0.219	0.293	***6.156***	19.629	4.999
2022-08-05 10:45	3714304	8.102	-112.567	283.393	19.643	404	450.051	0.219	0.293	***6.184***	19.643	4.825

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-05 11:00	3715204	8.105	-112.72	279.032	19.657	403.943	449.856	0.218	0.292	***6.036***	19.657	6.571
2022-08-05 11:15	3716104	8.115	-113.323	282.323	19.667	404.136	449.971	0.218	0.292	***6.242***	19.667	4.039
2022-08-05 11:30	3717004	8.122	-113.702	282.883	19.688	403.928	449.536	0.218	0.292	6.524	19.688	4.664
2022-08-05 11:45	3717904	8.131	-114.233	280.167	19.703	404.253	449.757	0.218	0.292	***6.292***	19.703	4.135
2022-08-05 12:00	3718804	8.120	-113.628	273.833	19.73	404.811	450.115	0.219	0.293	***6.254***	19.73	12.288
2022-08-05 12:15	3719704	8.119	-113.561	280.532	19.76	404.825	449.846	0.218	0.292	***6.151***	19.76	7.289
2022-08-05 12:30	3720604	8.125	-113.931	280.246	19.778	405.182	450.072	0.219	0.293	***5.828***	19.778	4.411
2022-08-05 12:45	3721504	8.081	-111.401	281.214	19.776	405.214	450.124	0.219	0.293	***5.610***	19.776	4.778
2022-08-05 13:00	3722404	8.110	-113.051	269.257	19.789	405.381	450.184	0.219	0.293	***5.397***	19.789	12.076
2022-08-05 13:15	3723304	8.115	-113.337	277.442	19.809	405.143	449.734	0.218	0.292	***6.300***	19.809	4.409
2022-08-05 13:30	3724204	8.133	-114.405	276.474	19.848	405.896	450.194	0.219	0.293	***6.022***	19.848	5.926
2022-08-05 13:45	3725104	8.140	-114.822	273.74	19.944	406.303	449.734	0.218	0.292	***6.401***	19.944	8.15
2022-08-05 14:00	3726004	8.159	-115.912	268.642	20.025	407.121	449.865	0.218	0.292	***6.494***	20.025	11.836
2022-08-05 14:15	3726904	8.176	-116.913	275.771	20.091	407.428	449.585	0.218	0.292	6.716	20.091	5.242
2022-08-05 14:30	3727804	8.163	-116.196	278.188	20.138	407.904	449.659	0.218	0.292	6.834	20.138	4.287
2022-08-05 14:45	3728704	8.177	-117.037	281.066	20.155	408.138	449.756	0.218	0.292	6.916	20.155	4.589
2022-08-05 15:00	3729604	8.175	-116.923	273.647	20.166	408.472	450.025	0.219	0.293	7.069	20.166	4.783
2022-08-05 15:15	3730504	8.170	-116.644	284.864	20.177	408.684	450.153	0.219	0.293	7.267	20.177	4.696
2022-08-05 15:30	3731404	8.174	-116.82	282.49	20.153	408.823	450.534	0.219	0.293	7.197	20.153	4.725
2022-08-05 15:45	3732304	8.162	-116.112	283.434	20.096	408.23	450.42	0.219	0.293	7.057	20.096	4.829
2022-08-05 16:00	3733204	8.171	-116.632	276.09	20.068	408.848	451.37	0.219	0.293	6.933	20.068	14.025
2022-08-05 16:15	3734104	8.155	-115.695	284.633	20.042	408.877	451.649	0.219	0.294	6.807	20.042	4.806
2022-08-05 16:30	3735004	8.169	-116.529	286.538	20.084	409.295	451.71	0.219	0.294	6.815	20.084	5.022
2022-08-05 16:45	3735904	8.153	-115.616	287.961	20.103	409.357	451.596	0.219	0.294	6.814	20.103	4.058
2022-08-05 17:00	3736804	8.159	-116.014	281.169	20.148	409.504	451.326	0.219	0.293	6.974	20.148	5.277
2022-08-05 17:15	3737704	8.186	-117.538	286.44	20.195	410.122	451.562	0.219	0.294	6.965	20.195	4.307
2022-08-05 17:30	3738604	8.194	-117.993	283.322	20.263	410.802	451.668	0.219	0.294	7.032	20.263	3.865
2022-08-05 17:45	3739504	8.198	-118.282	281.674	20.328	411.014	451.288	0.219	0.293	7.093	20.328	4.164
2022-08-05 18:00	3740404	8.191	-117.869	273.527	20.325	410.66	450.925	0.219	0.293	7.228	20.325	8.839
2022-08-05 18:15	3741304	8.183	-117.45	284.349	20.337	410.769	450.929	0.219	0.293	7.303	20.337	5.059
2022-08-05 18:30	3742204	8.207	-118.809	285.238	20.352	411.084	451.138	0.219	0.293	6.509	20.352	5.096
2022-08-05 18:45	3743104	8.193	-118.024	283.975	20.373	411.477	451.367	0.219	0.293	7.206	20.373	5.556
2022-08-05 19:00	3744004	8.198	-118.27	273.601	20.388	412.062	451.865	0.219	0.294	7.273	20.388	5.763
2022-08-05 19:15	3744904	8.199	-118.349	282.366	20.403	412.656	452.38	0.220	0.294	7.158	20.403	4.333
2022-08-05 19:30	3745804	8.201	-118.446	280.942	20.408	412.944	452.648	0.220	0.294	7.140	20.408	4.071
2022-08-05 19:45	3746704	8.216	-119.321	278.763	20.422	413.235	452.834	0.220	0.294	7.143	20.422	3.832
2022-08-05 20:00	3747604	8.176	-117.083	277.704	20.424	413.521	453.126	0.220	0.295	6.985	20.424	5.579
2022-08-05 20:15	3748504	8.156	-115.952	283.803	20.427	413.212	452.757	0.220	0.294	7.196	20.427	4.976
2022-08-05 20:30	3749404	8.172	-116.842	285.935	20.427	412.995	452.518	0.220	0.294	7.249	20.427	4.494
2022-08-05 20:45	3750304	8.160	-116.148	287.778	20.422	413.965	453.627	0.220	0.295	6.766	20.422	4.553
2022-08-05 21:00	3751204	8.147	-115.418	279.178	20.401	413.579	453.405	0.220	0.295	6.703	20.401	5.535
2022-08-05 21:15	3752104	8.134	-114.667	288.748	20.375	412.944	452.957	0.220	0.294	6.680	20.375	4.429
2022-08-05 21:30	3753004	8.164	-116.346	283.751	20.327	412.404	452.82	0.220	0.294	6.684	20.327	4.194
2022-08-05 21:45	3753904	8.155	-115.84	282.63	20.287	412.408	453.205	0.220	0.295	6.778	20.287	4.801
2022-08-05 22:00	3754804	8.154	-115.771	279.142	20.249	412.386	453.545	0.220	0.295	6.606	20.249	5.982
2022-08-05 22:15	3755704	8.130	-114.391	284.015	20.207	412.071	453.601	0.220	0.295	6.534	20.207	4.209
2022-08-05 22:30	3756604	8.119	-113.699	285.985	20.152	411.824	453.851	0.220	0.295	6.565	20.152	4.199
2022-08-05 22:45	3757504	8.121	-113.8	287.179	20.088	411.024	453.577	0.220	0.295	6.759	20.088	4.778

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-05 23:00	3758404	8.090	-112.009	280.031	20.027	410.944	454.075	0.221	0.295	***6.114***	20.027	8.43
2022-08-05 23:15	3759304	8.057	-110.14	286.712	19.978	410.518	454.071	0.221	0.295	***5.983***	19.978	4.734
2022-08-05 23:30	3760204	8.051	-109.782	283.581	19.926	409.997	453.996	0.221	0.295	***5.908***	19.926	4.803
2022-08-05 23:45	3761104	8.098	-112.422	284.216	19.871	408.981	453.394	0.220	0.295	***6.315***	19.871	4.871
2022-08-06 00:00	3762004	8.115	-113.356	272.791	19.82	408.825	453.711	0.220	0.295	***6.411***	19.82	32.357
2022-08-06 00:15	3762904	8.096	-112.295	285.503	19.799	408.731	453.807	0.220	0.295	***6.310***	19.799	4.976
2022-08-06 00:30	3763804	8.101	-112.536	285.83	19.757	408.167	453.591	0.220	0.295	***6.482***	19.757	4.617
2022-08-06 00:45	3764704	8.105	-112.758	289.005	19.724	407.894	453.608	0.220	0.295	***6.404***	19.724	4.236
2022-08-06 01:00	3765604	8.110	-113.025	277.349	19.677	407.421	453.527	0.220	0.295	***6.329***	19.677	6.677
2022-08-06 01:15	3766504	8.098	-112.362	287.89	19.641	406.846	453.241	0.220	0.295	***6.218***	19.641	5.042
2022-08-06 01:30	3767404	8.116	-113.351	285.169	19.594	406.299	453.078	0.220	0.295	***6.310***	19.594	5.116
2022-08-06 01:45	3768304	8.111	-113.025	285.188	19.55	406.191	453.391	0.220	0.295	***6.322***	19.55	4.718
2022-08-06 02:00	3769204	8.115	-113.268	275.73	19.52	406.075	453.549	0.220	0.295	***6.427***	19.52	8.215
2022-08-06 02:15	3770104	8.101	-112.457	285.479	19.484	405.602	453.362	0.220	0.295	***6.303***	19.484	4.314
2022-08-06 02:30	3771004	8.131	-114.11	286.521	19.42	405.06	453.381	0.220	0.295	6.620	19.42	4.354
2022-08-06 02:45	3771904	8.120	-113.471	289.122	19.364	404.494	453.288	0.220	0.295	***6.297***	19.364	4.57
2022-08-06 03:00	3772804	8.120	-113.449	279.957	19.343	404.381	453.363	0.220	0.295	***6.416***	19.343	4.256
2022-08-06 03:15	3773704	8.137	-114.405	291.161	19.313	404.149	453.397	0.220	0.295	***6.453***	19.313	4.774
2022-08-06 03:30	3774604	8.128	-113.878	289.914	19.276	403.832	453.4	0.220	0.295	***6.438***	19.276	4.485
2022-08-06 03:45	3775504	8.122	-113.516	286.795	19.228	403.482	453.473	0.220	0.295	6.508	19.228	4.747
2022-08-06 04:00	3776404	8.140	-114.534	280.134	19.174	402.826	453.268	0.220	0.295	***6.277***	19.174	5.202
2022-08-06 04:15	3777304	8.129	-113.897	285.77	19.153	402.858	453.508	0.220	0.295	***6.238***	19.153	8.307
2022-08-06 04:30	3778204	8.116	-113.137	288.457	19.127	402.765	453.653	0.220	0.295	***6.044***	19.127	4.341
2022-08-06 04:45	3779104	8.122	-113.502	288.836	19.099	402.456	453.583	0.220	0.295	***6.058***	19.099	4.586
2022-08-06 05:00	3780004	8.118	-113.244	284.073	19.07	401.991	453.339	0.220	0.295	***5.893***	19.07	5.176
2022-08-06 05:15	3780904	8.126	-113.657	291.123	19.038	401.844	453.488	0.220	0.295	***6.290***	19.038	4.064
2022-08-06 05:30	3781804	8.123	-113.497	288.891	19.015	401.741	453.59	0.220	0.295	***6.261***	19.015	4.318
2022-08-06 05:45	3782704	8.132	-114.012	285.124	18.976	401.298	453.477	0.220	0.295	***6.403***	18.976	4.541
2022-08-06 06:00	3783604	8.130	-113.869	276.069	18.963	401.194	453.487	0.220	0.295	***5.935***	18.963	8.443
2022-08-06 06:15	3784504	8.109	-112.686	288.948	18.93	400.986	453.571	0.220	0.295	***5.832***	18.93	4.426
2022-08-06 06:30	3785404	8.135	-114.172	289.044	18.915	400.758	453.466	0.220	0.295	***5.867***	18.915	4.406
2022-08-06 06:45	3786304	8.090	-111.632	290.007	18.918	401.044	453.756	0.220	0.295	***6.007***	18.918	3.694
2022-08-06 07:00	3787204	8.088	-111.518	285.918	18.91	400.879	453.642	0.220	0.295	***5.447***	18.91	3.975
2022-08-06 07:15	3788104	8.092	-111.721	290.984	18.903	401.233	454.113	0.220	0.295	***5.768***	18.903	3.794
2022-08-06 07:30	3789004	8.080	-111.048	286.991	18.893	401.818	454.88	0.221	0.296	***5.557***	18.893	3.977
2022-08-06 07:45	3789904	8.073	-110.605	285.103	18.876	400.776	453.864	0.220	0.295	***5.927***	18.876	3.953
2022-08-06 08:00	3790804	8.109	-112.653	273.184	18.86	400.542	453.759	0.220	0.295	***5.679***	18.86	5.03
2022-08-06 08:15	3791704	8.092	-111.68	282.375	18.869	400.762	453.916	0.220	0.295	***6.015***	18.869	4.15
2022-08-06 08:30	3792604	8.129	-113.783	284.778	18.879	400.574	453.605	0.220	0.295	***5.949***	18.879	3.946
2022-08-06 08:45	3793504	8.094	-111.818	287.091	18.888	400.923	453.915	0.220	0.295	***5.958***	18.888	3.543
2022-08-06 09:00	3794404	8.093	-111.742	281.698	18.893	400.748	453.67	0.220	0.295	***5.731***	18.893	4.129
2022-08-06 09:15	3795304	8.148	-114.861	286.268	18.895	400.28	453.115	0.220	0.295	6.720	18.895	3.845
2022-08-06 09:30	3796204	8.148	-114.892	281.994	18.931	400.627	453.155	0.220	0.295	6.766	18.931	3.932
2022-08-06 09:45	3797104	8.142	-114.57	280.852	18.969	401.1	453.316	0.220	0.295	6.735	18.969	3.965
2022-08-06 10:00	3798004	8.145	-114.708	267.066	18.984	401.268	453.359	0.220	0.295	6.736	18.984	8.714
2022-08-06 10:15	3798904	8.154	-115.256	279.307	19.013	401.565	453.409	0.220	0.295	6.760	19.013	4.051
2022-08-06 10:30	3799804	8.156	-115.361	281.4	19.029	401.791	453.512	0.220	0.295	6.771	19.029	4.477
2022-08-06 10:45	3800704	8.158	-115.488	284.659	19.028	401.805	453.541	0.220	0.295	6.834	19.028	4.251

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-06 11:00	3801604	8.154	-115.268	279.357	19.01	401.525	453.402	0.220	0.295	6.847	19.01	6.998
2022-08-06 11:15	3802504	8.173	-116.303	282.95	18.998	401.377	453.349	0.220	0.295	6.926	18.998	5.943
2022-08-06 11:30	3803404	8.171	-116.198	282.103	19	401.348	453.3	0.220	0.295	6.971	19	5.298
2022-08-06 11:45	3804304	8.173	-116.305	279.032	19.01	401.379	453.234	0.220	0.295	7.026	19.01	6.285
2022-08-06 12:00	3805204	8.179	-116.653	269.927	19.007	401.425	453.313	0.220	0.295	7.035	19.007	18.299
2022-08-06 12:15	3806104	8.167	-116	281.81	19.009	401.598	453.494	0.220	0.295	7.015	19.009	5.873
2022-08-06 12:30	3807004	8.175	-116.458	281.908	19.022	401.699	453.473	0.220	0.295	6.969	19.022	6.615
2022-08-06 12:45	3807904	8.180	-116.732	282.165	19.036	401.787	453.435	0.220	0.295	7.061	19.036	5.482
2022-08-06 13:00	3808804	8.180	-116.761	267.6	19.07	401.967	453.307	0.220	0.295	7.082	19.07	6.182
2022-08-06 13:15	3809704	8.198	-117.762	276.889	19.13	402.477	453.295	0.220	0.295	7.216	19.13	4.929
2022-08-06 13:30	3810604	8.204	-118.124	274.078	19.176	402.884	453.304	0.220	0.295	7.282	19.176	5.457
2022-08-06 13:45	3811504	8.212	-118.625	273.325	19.28	403.839	453.37	0.220	0.295	7.398	19.28	5.072
2022-08-06 14:00	3812404	8.201	-118.053	267.81	19.356	404.937	453.859	0.220	0.295	7.319	19.356	12.988
2022-08-06 14:15	3813304	8.213	-118.74	275.699	19.453	405.795	453.887	0.220	0.295	7.405	19.453	6.487
2022-08-06 14:30	3814204	8.211	-118.694	275.482	19.508	406.551	454.197	0.221	0.295	7.441	19.508	5.466
2022-08-06 14:45	3815104	8.203	-118.239	277.244	19.492	406.316	454.089	0.221	0.295	7.400	19.492	5.699
2022-08-06 15:00	3816004	8.208	-118.551	265.223	19.597	407.145	453.996	0.220	0.295	7.518	19.597	5.365
2022-08-06 15:15	3816904	8.225	-119.514	272.419	19.675	407.837	454.013	0.221	0.295	7.603	19.675	5.439
2022-08-06 15:30	3817804	8.226	-119.579	271.258	19.684	407.74	453.818	0.220	0.295	7.654	19.684	5.732
2022-08-06 15:45	3818704	8.229	-119.774	272.357	19.74	408.28	453.875	0.220	0.295	7.693	19.74	5.742
2022-08-06 16:00	3819604	8.239	-120.401	268.211	19.836	409.241	454.023	0.221	0.295	7.767	19.836	5.616
2022-08-06 16:15	3820504	8.239	-120.416	272.328	19.949	410.352	454.163	0.221	0.295	7.729	19.949	5.023
2022-08-06 16:30	3821404	8.243	-120.664	272.583	19.986	410.731	454.227	0.221	0.295	7.838	19.986	5.824
2022-08-06 16:45	3822304	8.240	-120.504	272.373	20.036	411.203	454.276	0.221	0.295	7.780	20.036	5.868
2022-08-06 17:00	3823204	8.239	-120.535	263.826	20.114	411.701	454.078	0.221	0.295	7.903	20.114	6.038
2022-08-06 17:15	3824104	8.255	-121.434	270.604	20.191	412.369	454.073	0.221	0.295	7.983	20.191	4.867
2022-08-06 17:30	3825004	8.254	-121.419	270.831	20.236	412.851	454.18	0.221	0.295	7.980	20.236	4.993
2022-08-06 17:45	3825904	8.242	-120.685	270.368	20.187	412.567	454.338	0.221	0.295	7.875	20.187	5.061
2022-08-06 18:00	3826804	8.244	-120.807	263.337	20.22	412.924	454.412	0.221	0.295	7.901	20.22	6.622
2022-08-06 18:15	3827704	8.247	-120.993	271.329	20.256	413.276	454.451	0.221	0.295	7.920	20.256	4.944
2022-08-06 18:30	3828604	8.242	-120.721	273.236	20.246	413.474	454.77	0.221	0.296	7.875	20.246	6.316
2022-08-06 18:45	3829504	8.243	-120.795	273.558	20.235	413.324	454.705	0.221	0.296	7.867	20.235	5.037
2022-08-06 19:00	3830404	8.232	-120.118	263.693	20.179	412.847	454.717	0.221	0.296	7.832	20.179	5.406
2022-08-06 19:15	3831304	8.235	-120.265	273.568	20.096	412.156	454.754	0.221	0.296	7.878	20.096	5.685
2022-08-06 19:30	3832204	8.229	-119.901	272.519	20.049	412.226	455.276	0.221	0.296	7.848	20.049	5.464
2022-08-06 19:45	3833104	8.232	-120.039	276.114	19.898	411.562	455.998	0.222	0.296	7.800	19.898	4.924
2022-08-06 20:00	3834004	8.228	-119.815	272.536	19.896	411.768	456.243	0.222	0.297	7.773	19.896	6.187
2022-08-06 20:15	3834904	8.218	-119.209	280.573	19.881	411.772	456.398	0.222	0.297	7.721	19.881	4.969
2022-08-06 20:30	3835804	8.206	-118.544	283.655	19.844	411.551	456.509	0.222	0.297	7.575	19.844	4.718
2022-08-06 20:45	3836704	8.196	-117.929	284.874	19.825	411.31	456.421	0.222	0.297	7.370	19.825	5.688
2022-08-06 21:00	3837604	8.192	-117.698	276.791	19.795	411.061	456.441	0.222	0.297	7.330	19.795	8.599
2022-08-06 21:15	3838504	8.178	-116.923	285.355	19.786	410.904	456.354	0.222	0.297	7.289	19.786	5.057
2022-08-06 21:30	3839404	8.189	-117.557	282.573	19.763	410.698	456.342	0.222	0.297	7.183	19.763	4.68
2022-08-06 21:45	3840304	8.190	-117.562	280.894	19.717	410.207	456.241	0.222	0.297	6.914	19.717	4.232
2022-08-06 22:00	3841204	8.184	-117.238	274.629	19.688	410.189	456.501	0.222	0.297	7.097	19.688	8.705
2022-08-06 22:15	3842104	8.162	-115.948	282.356	19.662	409.871	456.402	0.222	0.297	7.009	19.662	4.612
2022-08-06 22:30	3843004	8.165	-116.103	284.855	19.619	409.675	456.602	0.222	0.297	6.863	19.619	4.182
2022-08-06 22:45	3843904	8.155	-115.554	283.365	19.592	409.561	456.743	0.222	0.297	6.820	19.592	3.825

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-06 23:00	3844804	8.137	-114.52	275.664	19.578	409.504	456.814	0.222	0.297	6.545	19.578	5.294
2022-08-06 23:15	3845704	8.104	-112.66	285.389	19.594	410.276	457.52	0.222	0.297	6.618	19.594	3.445
2022-08-06 23:30	3846604	8.115	-113.304	284.542	19.641	410.465	457.274	0.222	0.297	6.527	19.641	3.744
2022-08-06 23:45	3847504	8.175	-116.725	281.562	19.705	410.785	457.008	0.222	0.297	6.594	19.705	3.825
2022-08-07 00:00	3848404	8.202	-118.275	277.516	19.729	410.191	456.112	0.222	0.296	7.046	19.729	4.491
2022-08-07 00:15	3849304	8.187	-117.402	281.865	19.714	410.214	456.283	0.222	0.297	7.104	19.714	3.782
2022-08-07 00:30	3850204	8.180	-117.021	283.293	19.695	410.189	456.441	0.222	0.297	7.080	19.695	3.618
2022-08-07 00:45	3851104	8.170	-116.41	284.96	19.66	410.007	456.57	0.222	0.297	6.899	19.66	3.974
2022-08-07 01:00	3852004	8.141	-114.729	280.174	19.613	409.709	456.696	0.222	0.297	6.610	19.613	3.943
2022-08-07 01:15	3852904	8.144	-114.915	285.122	19.598	409.517	456.628	0.222	0.297	6.644	19.598	3.787
2022-08-07 01:30	3853804	8.149	-115.201	282.923	19.578	409.069	456.322	0.222	0.297	6.705	19.578	3.982
2022-08-07 01:45	3854704	8.159	-115.728	282.554	19.559	408.715	456.116	0.222	0.296	6.850	19.559	4.148
2022-08-07 02:00	3855604	8.183	-117.104	275.518	19.529	408.745	456.441	0.222	0.297	6.886	19.529	6.06
2022-08-07 02:15	3856504	8.164	-116.045	283.746	19.522	408.827	456.6	0.222	0.297	6.829	19.522	3.727
2022-08-07 02:30	3857404	8.165	-116.091	285.248	19.511	408.665	456.527	0.222	0.297	6.876	19.511	3.781
2022-08-07 02:45	3858304	8.162	-115.919	286.898	19.499	408.538	456.505	0.222	0.297	6.772	19.499	4.181
2022-08-07 03:00	3859204	8.190	-117.488	280.534	19.458	407.767	456.039	0.222	0.296	6.966	19.458	3.823
2022-08-07 03:15	3860104	8.182	-116.997	286.576	19.436	407.556	456.015	0.221	0.296	6.964	19.436	3.911
2022-08-07 03:30	3861004	8.176	-116.67	283.183	19.415	407.36	456.007	0.221	0.296	6.842	19.415	3.9
2022-08-07 03:45	3861904	8.202	-118.113	281.455	19.398	407.303	456.107	0.222	0.296	7.154	19.398	4.075
2022-08-07 04:00	3862804	8.195	-117.738	279.278	19.379	407.265	456.243	0.222	0.297	7.076	19.379	4.258
2022-08-07 04:15	3863704	8.191	-117.512	284.633	19.375	407.429	456.469	0.222	0.297	7.069	19.375	3.651
2022-08-07 04:30	3864604	8.196	-117.764	285.794	19.355	407.271	456.491	0.222	0.297	6.911	19.355	3.956
2022-08-07 04:45	3865504	8.181	-116.916	287.873	19.344	407.367	456.7	0.222	0.297	6.593	19.344	3.531
2022-08-07 05:00	3866404	8.165	-115.998	282.542	19.337	406.924	456.276	0.222	0.297	***6.492***	19.337	3.826
2022-08-07 05:15	3867304	8.178	-116.73	287.449	19.316	406.855	456.407	0.222	0.297	6.637	19.316	3.572
2022-08-07 05:30	3868204	8.184	-117.056	284.206	19.278	406.399	456.267	0.222	0.297	6.696	19.278	3.921
2022-08-07 05:45	3869104	8.198	-117.843	283.374	19.258	406.427	456.488	0.222	0.297	6.762	19.258	3.737
2022-08-07 06:00	3870004	8.206	-118.265	275.132	19.242	406.281	456.484	0.222	0.297	6.796	19.242	15.591
2022-08-07 06:15	3870904	8.185	-117.104	283.372	19.215	406.351	456.831	0.222	0.297	6.606	19.215	4.579
2022-08-07 06:30	3871804	8.173	-116.391	285.117	19.209	406.319	456.848	0.222	0.297	***6.475***	19.209	4.155
2022-08-07 06:45	3872704	8.185	-117.049	283.798	19.173	405.823	456.646	0.222	0.297	***6.497***	19.173	4.098
2022-08-07 07:00	3873604	8.175	-116.487	279.719	19.123	405.055	456.271	0.222	0.297	6.642	19.123	4.213
2022-08-07 07:15	3874504	8.180	-116.761	286.035	19.108	405.049	456.41	0.222	0.297	6.713	19.108	3.952
2022-08-07 07:30	3875404	8.180	-116.761	282.814	19.088	404.796	456.321	0.222	0.297	6.989	19.088	4.109
2022-08-07 07:45	3876304	8.181	-116.782	281.884	19.083	404.701	456.264	0.222	0.297	7.051	19.083	4.052
2022-08-07 08:00	3877204	8.189	-117.24	277.285	19.062	404.747	456.519	0.222	0.297	7.133	19.062	4.454
2022-08-07 08:15	3878104	8.171	-116.224	282.339	19.045	404.737	456.68	0.222	0.297	6.820	19.045	7.582
2022-08-07 08:30	3879004	8.157	-115.423	282.952	19.033	404.725	456.785	0.222	0.297	6.806	19.033	4.264
2022-08-07 08:45	3879904	8.152	-115.149	283.031	19.044	404.907	456.881	0.222	0.297	6.689	19.044	4.555
2022-08-07 09:00	3880804	8.118	-113.249	277.774	19.046	404.883	456.835	0.222	0.297	6.536	19.046	4.224
2022-08-07 09:15	3881704	8.146	-114.81	281.684	19.022	404.531	456.67	0.222	0.297	6.645	19.022	4.051
2022-08-07 09:30	3882604	8.170	-116.162	279.509	19.019	404.44	456.602	0.222	0.297	6.857	19.019	3.618
2022-08-07 09:45	3883504	8.164	-115.798	278.031	19.006	404.336	456.616	0.222	0.297	6.817	19.006	3.569
2022-08-07 10:00	3884404	8.163	-115.728	267.753	18.976	404.136	456.685	0.222	0.297	6.802	18.976	6.956
2022-08-07 10:15	3885304	8.159	-115.521	277.912	18.991	404.29	456.711	0.222	0.297	6.779	18.991	4.126
2022-08-07 10:30	3886204	8.146	-114.825	281.779	19	404.466	456.816	0.222	0.297	6.712	19	3.564
2022-08-07 10:45	3887104	8.140	-114.46	282.416	19.02	404.681	456.867	0.222	0.297	6.566	19.02	3.833

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-07 11:00	3888004	8.151	-115.106	275.649	19.045	404.718	456.657	0.222	0.297	6.705	19.045	4.832
2022-08-07 11:15	3888904	8.181	-116.813	279.628	19.059	404.708	456.508	0.222	0.297	6.919	19.059	4.292
2022-08-07 11:30	3889804	8.198	-117.76	276.52	19.076	404.741	456.377	0.222	0.297	7.075	19.076	4.379
2022-08-07 11:45	3890704	8.217	-118.847	274.216	19.111	404.958	456.284	0.222	0.297	7.211	19.111	4.112
2022-08-07 12:00	3891604	8.214	-118.673	266.852	19.137	405.357	456.47	0.222	0.297	7.290	19.137	4.634
2022-08-07 12:15	3892504	8.214	-118.697	275.242	19.159	405.597	456.528	0.222	0.297	7.243	19.159	4.315
2022-08-07 12:30	3893404	8.217	-118.866	275.897	19.203	405.984	456.532	0.222	0.297	7.244	19.203	3.95
2022-08-07 12:45	3894304	8.210	-118.515	277.752	19.239	406.468	456.72	0.222	0.297	7.279	19.239	4.038
2022-08-07 13:00	3895204	8.205	-118.268	272.273	19.303	406.95	456.643	0.222	0.297	7.208	19.303	4.325
2022-08-07 13:15	3896104	8.228	-119.596	274.235	19.374	407.413	456.463	0.222	0.297	7.307	19.374	4.551
2022-08-07 13:30	3897004	8.254	-121.136	270.647	19.525	408.534	456.245	0.222	0.297	7.685	19.525	4.533
2022-08-07 13:45	3897904	8.260	-121.517	268.33	19.615	409.491	456.437	0.222	0.297	7.708	19.615	4.263
2022-08-07 14:00	3898804	8.250	-120.957	261.89	19.641	409.876	456.612	0.222	0.297	7.698	19.641	4.967
2022-08-07 14:15	3899704	8.260	-121.541	270.192	19.717	410.36	456.418	0.222	0.297	7.798	19.717	4.292
2022-08-07 14:30	3900604	8.264	-121.813	271.68	19.804	411.196	456.498	0.222	0.297	7.862	19.804	4.248
2022-08-07 14:45	3901504	8.268	-122.039	271.291	19.838	411.32	456.312	0.222	0.297	7.873	19.838	4.088
2022-08-07 15:00	3902404	8.251	-121.057	264.775	19.754	410.531	456.248	0.222	0.297	7.822	19.754	4.261
2022-08-07 15:15	3903304	8.252	-121.078	272.18	19.731	410.553	456.496	0.222	0.297	7.758	19.731	4.321
2022-08-07 15:30	3904204	8.260	-121.608	270.919	19.838	411.624	456.651	0.222	0.297	7.873	19.838	4.966
2022-08-07 15:45	3905104	8.255	-121.341	271.355	19.869	411.866	456.614	0.222	0.297	7.846	19.869	4.28
2022-08-07 16:00	3906004	8.248	-120.928	266.043	19.889	412.16	456.75	0.222	0.297	7.854	19.889	7.63
2022-08-07 16:15	3906904	8.260	-121.655	272.955	19.988	413.09	456.825	0.222	0.297	7.935	19.988	5.652
2022-08-07 16:30	3907804	8.268	-122.113	273.039	20.076	413.869	456.836	0.222	0.297	7.972	20.076	4.535
2022-08-07 16:45	3908704	8.270	-122.283	273.954	20.143	414.627	457.025	0.222	0.297	8.034	20.143	4.217
2022-08-07 17:00	3909604	8.257	-121.577	265.528	20.184	414.86	456.891	0.222	0.297	7.907	20.184	4.924
2022-08-07 17:15	3910504	8.268	-122.201	271.014	20.183	414.799	456.829	0.222	0.297	8.060	20.183	4.144
2022-08-07 17:30	3911404	8.280	-122.879	270.142	20.23	415.075	456.677	0.222	0.297	8.159	20.23	4.468
2022-08-07 17:45	3912304	8.289	-123.413	269.205	20.285	415.66	456.796	0.222	0.297	8.263	20.285	4.42
2022-08-07 18:00	3913204	8.279	-122.855	259.935	20.255	416.106	457.579	0.222	0.297	8.144	20.255	5.006
2022-08-07 18:15	3914104	8.274	-122.535	271.451	20.273	416.227	457.533	0.222	0.297	8.108	20.273	4.92
2022-08-07 18:30	3915004	8.273	-122.545	274.705	20.326	416.861	457.725	0.222	0.298	8.116	20.326	4.689
2022-08-07 18:45	3915904	8.279	-122.848	272.381	20.349	416.965	457.617	0.222	0.297	8.146	20.349	4.4
2022-08-07 19:00	3916804	8.259	-121.734	266.759	20.299	416.48	457.566	0.222	0.297	7.909	20.299	5.086
2022-08-07 19:15	3917704	8.270	-122.335	273.179	20.282	416.364	457.6	0.222	0.297	8.108	20.282	4.604
2022-08-07 19:30	3918604	8.266	-122.097	272.054	20.272	416.42	457.759	0.222	0.298	8.038	20.272	4.404
2022-08-07 19:45	3919504	8.264	-121.965	272.102	20.247	416.245	457.807	0.222	0.298	7.963	20.247	4.772
2022-08-07 20:00	3920404	8.260	-121.76	264.501	20.206	416.019	457.949	0.223	0.298	7.993	20.206	6.283
2022-08-07 20:15	3921304	8.250	-121.191	274.629	20.192	416.124	458.197	0.223	0.298	7.857	20.192	4.465
2022-08-07 20:30	3922204	8.241	-120.666	277.802	20.179	416.162	458.368	0.223	0.298	7.807	20.179	4.786
2022-08-07 20:45	3923104	8.243	-120.785	277.094	20.173	416.11	458.367	0.223	0.298	7.758	20.173	4.617
2022-08-07 21:00	3924004	8.223	-119.61	271.646	20.164	415.999	458.333	0.223	0.298	7.577	20.164	4.518
2022-08-07 21:15	3924904	8.236	-120.349	279.431	20.15	415.784	458.232	0.223	0.298	7.580	20.15	5.018
2022-08-07 21:30	3925804	8.234	-120.237	277.204	20.122	415.424	458.106	0.223	0.298	7.467	20.122	4.439
2022-08-07 21:45	3926704	8.211	-118.887	276.419	20.101	415.394	458.276	0.223	0.298	7.507	20.101	4.128
2022-08-07 22:00	3927604	8.175	-116.887	272.655	20.11	416.182	459.06	0.223	0.298	7.326	20.11	4.726
2022-08-07 22:15	3928504	8.225	-119.832	276.469	20.347	418.373	459.185	0.223	0.298	6.973	20.347	4.195
2022-08-07 22:30	3929404	8.243	-120.869	272.891	20.43	419.115	459.196	0.223	0.298	7.339	20.43	4.187
2022-08-07 22:45	3930304	8.256	-121.634	271.091	20.469	419.561	459.312	0.223	0.299	7.343	20.469	3.521

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-07 23:00	3931204	8.230	-120.137	267.424	20.482	419.797	459.444	0.223	0.299	7.271	20.482	3.594
2022-08-07 23:15	3932104	8.232	-120.239	274.193	20.487	419.855	459.46	0.223	0.299	7.138	20.487	3.845
2022-08-07 23:30	3933004	8.241	-120.769	271.651	20.461	419.87	459.731	0.223	0.299	6.980	20.461	3.582
2022-08-07 23:45	3933904	8.257	-121.677	268.511	20.413	418.941	459.17	0.223	0.298	7.121	20.413	5.596
2022-08-08 00:00	3934804	8.255	-121.541	266.184	20.373	418.609	459.194	0.223	0.298	7.293	20.373	3.746
2022-08-08 00:15	3935704	8.239	-120.585	273.861	20.354	418.543	459.303	0.223	0.299	7.295	20.354	3.667
2022-08-08 00:30	3936604	8.229	-120.025	276.512	20.332	418.373	459.321	0.223	0.299	7.157	20.332	3.501
2022-08-08 00:45	3937504	8.243	-120.838	274.736	20.302	418.137	459.356	0.223	0.299	7.216	20.302	4.152
2022-08-08 01:00	3938404	8.243	-120.811	266.287	20.292	418.092	459.403	0.223	0.299	7.233	20.292	6.335
2022-08-08 01:15	3939304	8.248	-121.062	275.807	20.288	418.494	459.881	0.223	0.299	7.251	20.288	3.781
2022-08-08 01:30	3940204	8.235	-120.332	277.051	20.294	418.417	459.741	0.223	0.299	7.305	20.294	3.855
2022-08-08 01:45	3941104	8.239	-120.575	275.764	20.29	418.544	459.92	0.223	0.299	7.337	20.29	3.527
2022-08-08 02:00	3942004	8.249	-121.124	274.398	20.279	418.364	459.824	0.223	0.299	7.481	20.279	4.105
2022-08-08 02:15	3942904	8.229	-119.977	279.545	20.263	418.459	460.084	0.224	0.299	7.454	20.263	3.693
2022-08-08 02:30	3943804	8.248	-121.067	277.266	20.224	418.175	460.151	0.224	0.299	7.222	20.224	3.771
2022-08-08 02:45	3944704	8.253	-121.36	277.776	20.197	418.108	460.335	0.224	0.299	7.167	20.197	3.608
2022-08-08 03:00	3945604	8.243	-120.759	270.278	20.181	417.965	460.333	0.224	0.299	7.215	20.181	4.222
2022-08-08 03:15	3946504	8.235	-120.308	278.525	20.169	417.843	460.319	0.224	0.299	7.427	20.169	3.55
2022-08-08 03:30	3947404	8.246	-120.885	275.79	20.136	417.533	460.294	0.224	0.299	7.212	20.136	3.856
2022-08-08 03:45	3948304	8.246	-120.869	276.603	20.095	417.139	460.261	0.224	0.299	7.200	20.095	3.664
2022-08-08 04:00	3949204	8.251	-121.181	268.668	20.055	417.005	460.499	0.224	0.299	7.184	20.055	5.882
2022-08-08 04:15	3950104	8.236	-120.268	276.81	20.014	416.616	460.467	0.224	0.299	7.258	20.014	3.576
2022-08-08 04:30	3951004	8.236	-120.287	279.276	19.972	416.234	460.449	0.224	0.299	7.153	19.972	3.404
2022-08-08 04:45	3951904	8.232	-120.051	280.475	19.936	415.889	460.423	0.224	0.299	6.907	19.936	3.632
2022-08-08 05:00	3952804	8.230	-119.905	271.708	19.88	415.252	460.259	0.224	0.299	6.982	19.88	4.198
2022-08-08 05:15	3953704	8.224	-119.574	279.996	19.852	415.164	460.442	0.224	0.299	7.033	19.852	3.621
2022-08-08 05:30	3954604	8.228	-119.779	278.677	19.811	414.57	460.177	0.224	0.299	7.024	19.811	3.502
2022-08-08 05:45	3955504	8.209	-118.692	279.278	19.763	414.112	460.136	0.224	0.299	7.031	19.763	3.843
2022-08-08 06:00	3956404	8.240	-120.38	273.217	19.707	413.871	460.413	0.224	0.299	7.070	19.707	5.008
2022-08-08 06:15	3957304	8.211	-118.752	281.97	19.682	413.582	460.344	0.224	0.299	6.905	19.682	4.01
2022-08-08 06:30	3958204	8.219	-119.2	280.475	19.656	413.693	460.722	0.224	0.299	6.765	19.656	3.514
2022-08-08 06:45	3959104	8.212	-118.783	282.387	19.622	413.458	460.786	0.224	0.300	6.992	19.622	3.342
2022-08-08 07:00	3960004	8.193	-117.691	275.425	19.587	412.775	460.373	0.224	0.299	6.740	19.587	3.993
2022-08-08 07:15	3960904	8.197	-117.927	281.073	19.569	412.611	460.364	0.224	0.299	6.846	19.569	3.41
2022-08-08 07:30	3961804	8.210	-118.63	278.277	19.538	412.325	460.351	0.224	0.299	6.863	19.538	4.389
2022-08-08 07:45	3962704	8.219	-119.152	277.247	19.509	412.245	460.55	0.224	0.299	6.932	19.509	3.506
2022-08-08 08:00	3963604	8.220	-119.197	271.26	19.486	411.79	460.259	0.224	0.299	6.744	19.486	4.497
2022-08-08 08:15	3964504	8.196	-117.807	280.101	19.477	411.845	460.414	0.224	0.299	6.671	19.477	3.445
2022-08-08 08:30	3965404	8.206	-118.384	280.63	19.448	411.352	460.143	0.224	0.299	6.991	19.448	3.588
2022-08-08 08:45	3966304	8.222	-119.228	279.986	19.404	410.863	460.033	0.223	0.299	7.108	19.404	3.8
2022-08-08 09:00	3967204	8.224	-119.352	272.571	19.375	410.424	459.83	0.223	0.299	7.086	19.375	3.496
2022-08-08 09:15	3968104	8.228	-119.598	278.043	19.371	410.252	459.669	0.223	0.299	7.380	19.371	3.506
2022-08-08 09:30	3969004	8.240	-120.277	275.821	19.388	410.272	459.527	0.223	0.299	7.396	19.388	3.607
2022-08-08 09:45	3969904	8.251	-120.885	274.309	19.374	410.231	459.62	0.223	0.299	7.469	19.374	3.785
2022-08-08 10:00	3970804	8.258	-121.284	267.669	19.357	410.217	459.773	0.223	0.299	7.392	19.357	5.704
2022-08-08 10:15	3971704	8.231	-119.7	276.031	19.318	410.023	459.934	0.223	0.299	7.049	19.318	3.568
2022-08-08 10:30	3972604	8.229	-119.607	276.608	19.26	409.456	459.87	0.223	0.299	7.110	19.26	3.791
2022-08-08 10:45	3973504	8.208	-118.411	277.387	19.258	409.674	460.135	0.224	0.299	7.070	19.258	3.565

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-08 11:00	3974404	8.205	-118.27	269.422	19.291	409.961	460.139	0.224	0.299	6.971	19.291	4.121
2022-08-08 11:15	3975304	8.180	-116.866	276.35	19.332	411.195	461.118	0.224	0.300	6.848	19.332	3.634
2022-08-08 11:30	3976204	8.211	-118.625	270.392	19.407	411.639	460.871	0.224	0.300	6.890	19.407	3.535
2022-08-08 11:45	3977104	8.218	-119.069	267.581	19.522	412.709	460.94	0.224	0.300	6.923	19.522	3.799
2022-08-08 12:00	3978004	8.245	-120.695	255.517	19.755	414.344	460.471	0.224	0.299	7.039	19.755	4.61
2022-08-08 12:15	3978904	8.242	-120.583	260.035	19.926	415.971	460.613	0.224	0.299	6.934	19.926	3.765
2022-08-08 12:30	3979804	8.235	-120.232	262.233	19.961	416.231	460.555	0.224	0.299	7.113	19.961	3.286
2022-08-08 12:45	3980704	8.217	-119.207	264.677	20.028	416.9	460.641	0.224	0.299	7.032	20.028	3.15
2022-08-08 13:00	3981604	8.224	-119.646	254.311	20.092	417.586	460.781	0.224	0.300	7.057	20.092	3.933
2022-08-08 13:15	3982504	8.207	-118.692	263.437	20.155	418.453	461.127	0.224	0.300	6.998	20.155	2.982
2022-08-08 13:30	3983404	8.232	-120.208	259.284	20.29	419.554	461.025	0.224	0.300	6.986	20.29	3.545
2022-08-08 13:45	3984304	8.222	-119.672	263.209	20.361	419.262	460.024	0.224	0.299	7.257	20.361	3.699
2022-08-08 14:00	3985204	8.256	-121.61	256.905	20.415	419.682	459.966	0.224	0.299	7.593	20.415	3.838
2022-08-08 14:15	3986104	8.260	-121.851	264.579	20.477	420.144	459.875	0.223	0.299	7.648	20.477	3.49
2022-08-08 14:30	3987004	8.240	-120.752	268.249	20.532	420.986	460.262	0.224	0.299	7.599	20.532	3.557
2022-08-08 14:45	3987904	8.288	-123.52	263.066	20.734	422.415	459.89	0.223	0.299	7.913	20.734	3.368
2022-08-08 15:00	3988804	8.292	-123.889	252.411	21.034	425.045	459.879	0.224	0.299	7.938	21.034	3.749
2022-08-08 15:15	3989704	8.283	-123.491	249.027	21.253	427.624	460.583	0.224	0.299	7.872	21.253	3.627
2022-08-08 15:30	3990604	8.287	-123.608	257.401	20.992	423.036	458.105	0.223	0.298	8.694	20.992	3.469
2022-08-08 15:45	3991504	8.257	-121.97	258.774	21.151	424.748	458.453	0.223	0.298	8.537	21.151	3.301
2022-08-08 16:00	3992404	8.306	-125.027	238.954	21.796	432.621	460.821	0.224	0.300	8.147	21.796	7.2
2022-08-08 16:15	3993304	8.295	-124.583	242.953	22.28	439.636	463.724	0.225	0.301	8.047	22.28	3.617
2022-08-08 16:30	3994204	8.289	-124.373	236.627	22.555	442.41	464.083	0.226	0.302	7.785	22.555	3.618
2022-08-08 16:45	3995104	8.249	-121.996	249.74	22.381	436.703	459.697	0.223	0.299	8.691	22.381	3.518
2022-08-08 17:00	3996004	8.379	-129.106	245.487	21.666	427.978	457.082	0.222	0.297	9.877	21.666	5.06
2022-08-08 17:15	3996904	8.374	-128.672	261.416	21.318	425.679	457.884	0.223	0.298	9.624	21.318	3.594
2022-08-08 17:30	3997804	8.324	-125.88	264.801	21.354	426.714	458.651	0.223	0.298	8.937	21.354	3.649
2022-08-08 17:45	3998704	8.338	-126.653	260.271	21.353	424.986	456.802	0.222	0.297	9.235	21.353	3.481
2022-08-08 18:00	3999604	8.365	-128.236	258.443	21.441	425.811	456.868	0.222	0.297	9.323	21.441	3.649
2022-08-08 18:15	4000504	8.319	-125.773	262.992	21.769	430.029	458.309	0.223	0.298	9.626	21.769	3.35
2022-08-08 18:30	4001404	8.377	-129.166	254.208	22.053	433.744	459.618	0.223	0.299	9.396	22.053	3.426
2022-08-08 18:45	4002304	8.368	-128.77	248.739	22.323	436.658	460.185	0.224	0.299	8.888	22.323	3.377
2022-08-08 19:00	4003204	8.315	-125.823	247.764	22.446	437.995	460.458	0.224	0.299	8.854	22.446	3.873
2022-08-08 19:15	4004104	8.314	-125.785	249.309	22.577	439.557	460.888	0.224	0.300	8.566	22.577	3.498
2022-08-08 19:30	4005004	8.308	-125.408	253.045	22.492	436.052	457.991	0.223	0.298	9.091	22.492	3.39
2022-08-08 19:45	4005904	8.370	-128.975	250.653	22.468	437.139	459.351	0.223	0.299	9.135	22.468	4.92
2022-08-08 20:00	4006804	8.376	-129.297	251.676	22.469	436.479	458.653	0.223	0.298	9.400	22.469	3.647
2022-08-08 20:15	4007704	8.367	-128.791	252.489	22.446	437.574	460.012	0.224	0.299	9.626	22.446	3.486
2022-08-08 20:30	4008604	8.364	-128.62	253.407	22.432	438.34	460.946	0.224	0.300	9.349	22.432	3.537
2022-08-08 20:45	4009504	8.330	-126.653	255.105	22.371	438.477	461.658	0.224	0.300	8.912	22.371	3.295
2022-08-08 21:00	4010404	8.322	-126.097	245.918	22.174	435.957	460.834	0.224	0.300	8.938	22.174	5.167
2022-08-08 21:15	4011304	8.329	-126.443	252.084	22.04	433.992	460	0.224	0.299	8.852	22.04	3.183
2022-08-08 21:30	4012204	8.338	-126.832	256.263	21.815	430.662	458.563	0.223	0.298	9.179	21.815	3.372
2022-08-08 21:45	4013104	8.316	-125.535	260.743	21.649	429.6	458.979	0.223	0.298	9.007	21.649	3.307
2022-08-08 22:00	4014004	8.297	-124.388	260.512	21.541	429.293	459.662	0.223	0.299	8.672	21.541	3.368
2022-08-08 22:15	4014904	8.248	-121.582	271.131	21.505	429.321	460.026	0.224	0.299	8.261	21.505	3.261
2022-08-08 22:30	4015804	8.254	-121.865	273.818	21.324	427.092	459.346	0.223	0.299	8.325	21.324	3.215
2022-08-08 22:45	4016704	8.256	-121.932	278.489	21.187	426.08	459.553	0.223	0.299	8.244	21.187	3.764

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-08 23:00	4017604	8.232	-120.533	265.176	21.144	425.868	459.724	0.223	0.299	8.041	21.144	3.614
2022-08-08 23:15	4018504	8.219	-119.781	275.921	21.122	426.559	460.68	0.224	0.299	7.746	21.122	3.092
2022-08-08 23:30	4019404	8.181	-117.598	275.683	21.103	428.388	462.843	0.225	0.301	7.193	21.103	3.048
2022-08-08 23:45	4020304	8.151	-115.898	272.149	21.061	428.71	463.591	0.225	0.301	6.863	21.061	2.93
2022-08-09 00:00	4021204	8.161	-116.415	253.352	20.972	428.07	463.745	0.225	0.301	6.665	20.972	6.113
2022-08-09 00:15	4022104	8.176	-117.233	268.721	20.922	427.001	463.067	0.225	0.301	6.690	20.922	6.974
2022-08-09 00:30	4023004	8.202	-118.694	265.211	20.834	425.678	462.474	0.225	0.301	7.386	20.834	3.193
2022-08-09 00:45	4023904	8.212	-119.231	267.355	20.728	424.35	462.052	0.225	0.300	7.560	20.728	3.369
2022-08-09 01:00	4024804	8.233	-120.366	261.89	20.605	423.176	461.959	0.225	0.300	7.568	20.605	3.767
2022-08-09 01:15	4025704	8.219	-119.555	269.41	20.531	422.558	461.993	0.225	0.300	7.457	20.531	3.225
2022-08-09 01:30	4026604	8.211	-119.061	269.927	20.443	421.895	462.118	0.225	0.300	7.424	20.443	3.187
2022-08-09 01:45	4027504	8.228	-119.979	268.001	20.368	421.149	462.027	0.225	0.300	7.387	20.368	3.513
2022-08-09 02:00	4028404	8.238	-120.523	258.583	20.263	420.05	461.838	0.224	0.300	7.296	20.263	4.142
2022-08-09 02:15	4029304	8.227	-119.843	269.021	20.209	419.38	461.623	0.224	0.300	7.186	20.209	3.379
2022-08-09 02:30	4030204	8.212	-119.011	275.628	20.137	418.82	461.705	0.224	0.300	7.284	20.137	3.118
2022-08-09 02:45	4031104	8.219	-119.324	276.677	20.058	418.034	461.61	0.224	0.300	7.346	20.058	3.259
2022-08-09 03:00	4032004	8.225	-119.655	265.65	19.926	416.642	461.352	0.224	0.300	7.282	19.926	5.035
2022-08-09 03:15	4032904	8.196	-117.965	276.62	19.88	416.085	461.18	0.224	0.300	7.068	19.88	4.038
2022-08-09 03:30	4033804	8.215	-119.033	270.561	19.845	416.405	461.885	0.224	0.300	6.671	19.845	11.2
2022-08-09 03:45	4034704	8.182	-117.178	270.545	19.804	416.504	462.392	0.225	0.301	***5.377***	19.804	19.557
2022-08-09 04:00	4035604	8.203	-118.339	259.921	19.729	414.945	461.392	0.224	0.300	***5.973***	19.729	91.935
2022-08-09 04:15	4036504	8.188	-117.419	268.795	19.68	414.113	460.956	0.224	0.300	***6.414***	19.68	5.26
2022-08-09 04:30	4037404	8.202	-118.239	272.218	19.63	413.712	460.991	0.224	0.300	6.955	19.63	4.616
2022-08-09 04:45	4038304	8.195	-117.831	274.765	19.6	413.434	460.983	0.224	0.300	6.628	19.6	3.403
2022-08-09 05:00	4039204	8.197	-117.924	272.431	19.542	412.487	460.489	0.224	0.299	6.842	19.542	8.058
2022-08-09 05:15	4040104	8.203	-118.215	278.453	19.518	412.529	460.774	0.224	0.300	6.909	19.518	3.46
2022-08-09 05:30	4041004	8.194	-117.679	277.061	19.483	412.18	460.734	0.224	0.299	6.846	19.483	3.66
2022-08-09 05:45	4041904	8.187	-117.304	277.063	19.439	411.743	460.669	0.224	0.299	6.892	19.439	3.362
2022-08-09 06:00	4042804	8.219	-119.095	267.688	19.4	411.343	460.608	0.224	0.299	6.923	19.4	4.978
2022-08-09 06:15	4043704	8.196	-117.743	278.045	19.349	410.851	460.565	0.224	0.299	6.924	19.349	3.628
2022-08-09 06:30	4044604	8.187	-117.214	280.215	19.288	410.391	460.647	0.224	0.299	6.907	19.288	3.792
2022-08-09 06:45	4045504	8.191	-117.424	282.84	19.239	410.124	460.831	0.224	0.300	6.810	19.239	3.601
2022-08-09 07:00	4046404	8.191	-117.402	274.746	19.18	409.229	460.41	0.224	0.299	6.849	19.18	4.694
2022-08-09 07:15	4047304	8.200	-117.924	279.752	19.147	409.029	460.512	0.224	0.299	6.774	19.147	3.587
2022-08-09 07:30	4048204	8.198	-117.764	279.335	19.111	408.922	460.746	0.224	0.299	6.945	19.111	3.316
2022-08-09 07:45	4049104	8.207	-118.265	278.937	19.107	409.055	460.935	0.224	0.300	***6.329***	19.107	3.401
2022-08-09 08:00	4050004	8.212	-118.558	272.388	19.087	408.448	460.451	0.224	0.299	***6.330***	19.087	3.95
2022-08-09 08:15	4050904	8.195	-117.588	275.442	19.065	408.529	460.76	0.224	0.299	6.544	19.065	3.457
2022-08-09 08:30	4051804	8.199	-117.824	278.78	19.058	408.409	460.695	0.224	0.299	***6.448***	19.058	3.554
2022-08-09 08:45	4052704	8.207	-118.26	277.797	19.043	408.4	460.835	0.224	0.300	***6.231***	19.043	3.832
2022-08-09 09:00	4053604	8.212	-118.554	268.096	19.017	407.794	460.41	0.224	0.299	***6.295***	19.017	6.104
2022-08-09 09:15	4054504	8.209	-118.346	276.274	19.01	408.077	460.799	0.224	0.300	***6.456***	19.01	3.064
2022-08-09 09:30	4055404	8.194	-117.505	275.258	18.98	407.648	460.613	0.224	0.299	***6.277***	18.98	3.457
2022-08-09 09:45	4056304	8.263	-121.253	262.181	18.67	0.055	0.063	0.000	0.000	8.212	18.67	4.026
2022-08-09 10:00	4057204	8.193	-117.376	231.556	18.813	406.079	460.5	0.224	0.299	6.945	18.813	31.016
2022-08-09 10:15	4058104	8.125	-113.549	209.233	18.869	405.616	459.415	0.223	0.299	***6.490***	18.869	559.198
2022-08-09 10:30	4059004	8.145	-114.686	240.411	18.832	406.134	460.369	0.224	0.299	6.622	18.832	84.513
2022-08-09 10:45	4059904	8.259	-121.207	238.816	19.085	408.236	460.228	0.224	0.299	7.392	19.085	60.96

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-09 11:00	4060804	8.211	-118.449	246.262	19.019	407.913	460.516	0.224	0.299	7.222	19.019	29.95
2022-08-09 11:15	4061704	8.196	-117.629	261.497	19.085	408.492	460.516	0.224	0.299	7.216	19.085	6.939
2022-08-09 11:30	4062604	8.200	-117.893	262.112	19.145	409.034	460.536	0.224	0.299	7.226	19.145	3.807
2022-08-09 11:45	4063504	8.240	-120.218	256.974	19.239	409.887	460.561	0.224	0.299	7.232	19.239	4.002
2022-08-09 12:00	4064404	8.222	-119.216	257.344	19.309	410.552	460.618	0.224	0.299	7.270	19.309	3.072
2022-08-09 12:15	4065304	8.244	-120.487	265.087	19.365	411.066	460.64	0.224	0.299	7.311	19.365	2.945
2022-08-09 12:30	4066204	8.246	-120.628	264.849	19.406	411.427	460.642	0.224	0.299	7.365	19.406	2.572
2022-08-09 12:45	4067104	8.240	-120.296	266.465	19.443	412.037	460.961	0.224	0.300	7.346	19.443	2.586
2022-08-09 13:00	4068004	8.226	-119.493	256.855	19.493	412.253	460.709	0.224	0.299	7.343	19.493	85.688
2022-08-09 13:15	4068904	8.220	-119.238	269.574	19.587	413.152	460.792	0.224	0.300	7.379	19.587	2.819
2022-08-09 13:30	4069804	8.232	-119.925	268.771	19.675	414.04	460.919	0.224	0.300	7.337	19.675	2.651
2022-08-09 13:45	4070704	8.221	-119.388	268.306	19.811	415.187	460.858	0.224	0.300	7.467	19.811	2.87
2022-08-09 14:00	4071604	8.239	-120.406	261.697	19.892	416.244	461.246	0.224	0.300	7.552	19.892	2.704
2022-08-09 14:15	4072504	8.231	-119.991	268.876	19.969	417.019	461.353	0.224	0.300	7.484	19.969	3.045
2022-08-09 14:30	4073404	8.247	-120.921	268.397	20.055	417.527	461.073	0.224	0.300	7.612	20.055	2.848
2022-08-09 14:45	4074304	8.261	-121.779	269.21	20.119	417.761	460.715	0.224	0.299	7.850	20.119	2.545
2022-08-09 15:00	4075204	8.243	-120.757	265.223	20.153	417.988	460.63	0.224	0.299	7.786	20.153	2.572
2022-08-09 15:15	4076104	8.274	-122.499	271.649	20.182	418.25	460.635	0.224	0.299	7.784	20.182	2.482
2022-08-09 15:30	4077004	8.281	-122.941	269.706	20.19	418.273	460.584	0.224	0.299	7.818	20.19	2.957
2022-08-09 15:45	4077904	8.273	-122.466	270.161	20.205	418.539	460.737	0.224	0.299	7.881	20.205	2.561
2022-08-09 16:00	4078804	8.283	-123.026	262.803	20.208	417.804	459.899	0.223	0.299	8.207	20.208	3.077
2022-08-09 16:15	4079704	8.281	-122.955	271.656	20.253	418.051	459.732	0.223	0.299	8.313	20.253	2.492
2022-08-09 16:30	4080604	8.300	-123.997	271.52	20.245	417.875	459.613	0.223	0.299	8.329	20.245	2.556
2022-08-09 16:45	4081504	8.300	-124.044	273.027	20.24	417.936	459.729	0.223	0.299	8.285	20.24	2.554
2022-08-09 17:00	4082404	8.286	-123.229	264.754	20.27	418.03	459.542	0.223	0.299	8.369	20.27	2.592
2022-08-09 17:15	4083304	8.303	-124.216	273.47	20.314	418.36	459.489	0.223	0.299	8.481	20.314	2.516
2022-08-09 17:30	4084204	8.303	-124.216	273.065	20.366	418.795	459.465	0.223	0.299	8.586	20.366	2.419
2022-08-09 17:45	4085104	8.300	-124.092	271.339	20.415	419.067	459.286	0.223	0.299	8.684	20.415	2.511
2022-08-09 18:00	4086004	8.314	-124.934	266.463	20.468	419.305	459.039	0.223	0.298	8.815	20.468	2.749
2022-08-09 18:15	4086904	8.288	-123.429	270.778	20.525	420.041	459.296	0.223	0.299	8.931	20.525	2.389
2022-08-09 18:30	4087804	8.282	-123.162	273.771	20.59	420.731	459.425	0.223	0.299	9.075	20.59	2.353
2022-08-09 18:45	4088704	8.297	-124.023	273.885	20.635	420.328	458.558	0.223	0.298	9.040	20.635	2.522
2022-08-09 19:00	4089604	8.333	-126.097	252.001	20.688	420.795	458.564	0.223	0.298	9.067	20.688	2.679
2022-08-09 19:15	4090504	8.352	-127.182	268.833	20.724	420.931	458.371	0.223	0.298	9.111	20.724	2.365
2022-08-09 19:30	4091404	8.377	-128.591	266.775	20.734	421.169	458.532	0.223	0.298	8.961	20.734	2.323
2022-08-09 19:45	4092304	8.365	-127.931	267.867	20.713	420.695	458.212	0.223	0.298	9.078	20.713	2.404
2022-08-09 20:00	4093204	8.359	-127.559	262.028	20.645	420.007	458.111	0.223	0.298	9.034	20.645	2.302
2022-08-09 20:15	4094104	8.355	-127.308	268.087	20.646	420.16	458.27	0.223	0.298	8.910	20.646	2.22
2022-08-09 20:30	4095004	8.354	-127.258	271.024	20.629	420.383	458.68	0.223	0.298	8.799	20.629	2.21
2022-08-09 20:45	4095904	8.336	-126.245	271.768	20.616	420.246	458.651	0.223	0.298	8.826	20.616	2.204
2022-08-09 21:00	4096804	8.316	-125.084	267.588	20.629	420.438	458.741	0.223	0.298	8.813	20.629	2.372
2022-08-09 21:15	4097704	8.327	-125.74	272.652	20.657	420.646	458.692	0.223	0.298	8.804	20.657	2.483
2022-08-09 21:30	4098604	8.316	-125.115	273.68	20.683	420.899	458.72	0.223	0.298	8.823	20.683	2.652
2022-08-09 21:45	4099504	8.306	-124.533	272.39	20.671	420.789	458.716	0.223	0.298	8.691	20.671	2.456
2022-08-09 22:00	4100404	8.284	-123.353	263.552	20.757	423.202	460.519	0.224	0.299	8.182	20.757	3.276
2022-08-09 22:15	4101304	8.273	-122.697	269.613	20.764	423.38	460.646	0.224	0.299	8.073	20.764	2.588
2022-08-09 22:30	4102204	8.269	-122.514	271.916	20.794	424.2	461.251	0.224	0.300	8.123	20.794	2.802
2022-08-09 22:45	4103104	8.308	-124.71	267.786	20.796	425.729	462.894	0.225	0.301	8.034	20.796	2.709

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-09 23:00	4104004	8.281	-123.141	263.359	20.751	424.999	462.542	0.225	0.301	7.974	20.751	2.943
2022-08-09 23:15	4104904	8.306	-124.533	266.198	20.698	424.771	462.801	0.225	0.301	7.912	20.698	2.741
2022-08-09 23:30	4105804	8.302	-124.321	267.147	20.623	424.097	462.784	0.225	0.301	7.948	20.623	2.763
2022-08-09 23:45	4106704	8.292	-123.72	267.724	20.578	423.652	462.733	0.225	0.301	7.902	20.578	2.733
2022-08-10 00:00	4107604	8.279	-122.924	265.45	20.483	422.761	462.682	0.225	0.301	7.840	20.483	2.721
2022-08-10 00:15	4108504	8.263	-122.042	270.364	20.479	422.588	462.53	0.225	0.301	7.754	20.479	2.451
2022-08-10 00:30	4109404	8.283	-123.103	272.905	20.403	421.644	462.225	0.225	0.300	7.676	20.403	2.522
2022-08-10 00:45	4110304	8.270	-122.342	272.96	20.315	421.031	462.411	0.225	0.301	7.496	20.315	2.574
2022-08-10 01:00	4111204	8.234	-120.27	261.916	20.27	420.85	462.651	0.225	0.301	7.612	20.27	2.591
2022-08-10 01:15	4112104	8.233	-120.23	273.93	20.266	420.875	462.717	0.225	0.301	7.481	20.266	2.579
2022-08-10 01:30	4113004	8.265	-122.023	272.538	20.181	419.93	462.504	0.225	0.301	7.468	20.181	3.17
2022-08-10 01:45	4113904	8.261	-121.734	273.458	20.082	419.128	462.578	0.225	0.301	7.478	20.082	2.969
2022-08-10 02:00	4114804	8.274	-122.399	269.195	19.949	417.64	462.236	0.225	0.300	7.607	19.949	3.042
2022-08-10 02:15	4115704	8.268	-122.068	274.235	19.933	417.446	462.173	0.225	0.300	7.600	19.933	2.786
2022-08-10 02:30	4116604	8.248	-120.897	276.775	19.883	416.599	461.731	0.224	0.300	7.541	19.883	2.658
2022-08-10 02:45	4117504	8.235	-120.199	278.634	19.878	416.915	462.124	0.225	0.300	7.430	19.878	2.606
2022-08-10 03:00	4118404	8.236	-120.208	272.187	19.81	416.242	462.04	0.225	0.300	7.466	19.81	2.875
2022-08-10 03:15	4119304	8.227	-119.696	278.966	19.794	415.997	461.932	0.224	0.300	7.424	19.794	3.19
2022-08-10 03:30	4120204	8.252	-121.09	274.457	19.733	415.595	462.079	0.225	0.300	7.301	19.733	3.139
2022-08-10 03:45	4121104	8.239	-120.33	276.601	19.697	415.405	462.222	0.225	0.300	7.352	19.697	2.677
2022-08-10 04:00	4122004	8.240	-120.366	269.672	19.632	414.297	461.625	0.224	0.300	7.208	19.632	2.612
2022-08-10 04:15	4122904	8.242	-120.461	277.509	19.573	413.74	461.586	0.224	0.300	7.211	19.573	2.632
2022-08-10 04:30	4123804	8.213	-118.804	280.236	19.557	413.474	461.45	0.224	0.300	7.222	19.557	2.663
2022-08-10 04:45	4124704	8.219	-119.102	280.899	19.51	413.174	461.57	0.224	0.300	7.137	19.51	2.468
2022-08-10 05:00	4125604	8.225	-119.441	273.558	19.441	412.642	461.66	0.224	0.300	7.145	19.441	3.402
2022-08-10 05:15	4126504	8.228	-119.581	282.015	19.421	412.377	461.558	0.224	0.300	7.282	19.421	3.148
2022-08-10 05:30	4127404	8.244	-120.475	280.84	19.407	412.189	461.489	0.224	0.300	7.240	19.407	2.747
2022-08-10 05:45	4128304	8.225	-119.398	280.332	19.34	411.335	461.194	0.224	0.300	7.266	19.34	2.846
2022-08-10 06:00	4129204	8.227	-119.462	275.335	19.269	410.931	461.444	0.224	0.300	7.247	19.269	2.69
2022-08-10 06:15	4130104	8.227	-119.476	281.543	19.241	410.609	461.356	0.224	0.300	7.164	19.241	2.595
2022-08-10 06:30	4131004	8.217	-118.902	283.264	19.23	410.626	461.487	0.224	0.300	7.109	19.23	2.734
2022-08-10 06:45	4131904	8.218	-118.966	284.535	19.185	410.316	461.578	0.224	0.300	7.162	19.185	2.441
2022-08-10 07:00	4132804	8.214	-118.704	274.495	19.154	409.95	461.481	0.224	0.300	7.141	19.154	3.18
2022-08-10 07:15	4133704	8.215	-118.759	283.56	19.124	409.941	461.767	0.224	0.300	7.101	19.124	2.622
2022-08-10 07:30	4134604	8.201	-117.96	281.133	19.124	409.889	461.704	0.224	0.300	6.976	19.124	2.636
2022-08-10 07:45	4135504	8.207	-118.301	280.94	19.085	409.451	461.6	0.224	0.300	6.940	19.085	2.502
2022-08-10 08:00	4136404	8.207	-118.239	274.071	19.025	408.91	461.586	0.224	0.300	6.897	19.025	2.26
2022-08-10 08:15	4137304	8.208	-118.289	276.467	18.992	408.456	461.399	0.224	0.300	6.964	18.992	2.582
2022-08-10 08:30	4138204	8.189	-117.202	278.351	18.961	408.286	461.516	0.224	0.300	6.979	18.961	2.304
2022-08-10 08:45	4139104	8.209	-118.313	280.306	18.927	407.832	461.345	0.224	0.300	6.887	18.927	2.283
2022-08-10 09:00	4140004	8.209	-118.315	270.509	18.928	407.944	461.459	0.224	0.300	6.986	18.928	2.269
2022-08-10 09:15	4140904	8.205	-118.074	278.024	18.922	407.942	461.523	0.224	0.300	6.925	18.922	2.399
2022-08-10 09:30	4141804	8.180	-116.675	275.985	18.905	407.756	461.481	0.224	0.300	6.900	18.905	2.805
2022-08-10 09:45	4142704	8.206	-118.146	272.009	18.894	407.698	461.528	0.224	0.300	6.927	18.894	2.245
2022-08-10 10:00	4143604	8.211	-118.423	270.631	18.88	407.53	461.472	0.224	0.300	6.923	18.88	2.21
2022-08-10 10:15	4144504	8.211	-118.394	273.911	18.882	407.698	461.645	0.224	0.300	6.925	18.882	2.206
2022-08-10 10:30	4145404	8.209	-118.332	273.439	18.878	407.934	461.955	0.224	0.300	6.910	18.878	2.089
2022-08-10 10:45	4146304	8.185	-116.968	273.892	18.861	407.808	461.974	0.224	0.300	6.862	18.861	2.225

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-10 11:00	4147204	8.190	-117.235	261.411	18.865	407.425	461.499	0.224	0.300	6.824	18.865	2.167
2022-08-10 11:15	4148104	8.188	-117.157	271.553	18.903	407.77	461.519	0.224	0.300	6.833	18.903	2.088
2022-08-10 11:30	4149004	8.190	-117.247	273.663	18.956	408.269	461.548	0.224	0.300	6.980	18.956	2.188
2022-08-10 11:45	4149904	8.192	-117.385	275.687	19.028	409.041	461.709	0.224	0.300	7.037	19.028	2.542
2022-08-10 12:00	4150804	8.202	-117.991	270.302	19.099	409.763	461.811	0.224	0.300	7.140	19.099	2.688
2022-08-10 12:15	4151704	8.198	-117.779	276.875	19.164	410.398	461.883	0.224	0.300	7.141	19.164	2.373
2022-08-10 12:30	4152604	8.191	-117.455	278.246	19.234	411.037	461.907	0.224	0.300	7.272	19.234	2.427
2022-08-10 12:45	4153504	8.212	-118.673	272.621	19.311	411.6	461.775	0.224	0.300	7.530	19.311	2.766
2022-08-10 13:00	4154404	8.210	-118.556	266.136	19.377	412.17	461.766	0.224	0.300	7.369	19.377	2.403
2022-08-10 13:15	4155304	8.198	-117.939	275.625	19.501	413.796	462.359	0.225	0.301	7.275	19.501	2.346
2022-08-10 13:30	4156204	8.191	-117.593	275.48	19.641	414.784	462.082	0.225	0.300	7.353	19.641	2.62
2022-08-10 13:45	4157104	8.204	-118.38	273.599	19.77	416.038	462.205	0.225	0.300	7.666	19.77	2.663
2022-08-10 14:00	4158004	8.211	-118.792	263.578	19.829	417.27	463.001	0.225	0.301	7.416	19.829	2.663
2022-08-10 14:15	4158904	8.201	-118.287	273.368	19.898	418.046	463.178	0.225	0.301	7.395	19.898	2.722
2022-08-10 14:30	4159804	8.196	-117.984	276.484	19.97	418.597	463.092	0.225	0.301	7.441	19.97	3.158
2022-08-10 14:45	4160704	8.213	-119.026	275.652	20.042	419.03	462.858	0.225	0.301	7.724	20.042	2.405
2022-08-10 15:00	4161604	8.219	-119.367	267.646	20.117	419.747	462.919	0.225	0.301	7.831	20.117	3.458
2022-08-10 15:15	4162504	8.248	-121.014	273.017	20.127	419.774	462.85	0.225	0.301	7.647	20.127	3.372
2022-08-10 15:30	4163404	8.260	-121.725	266.861	20.181	420.065	462.649	0.225	0.301	7.713	20.181	2.73
2022-08-10 15:45	4164304	8.234	-120.287	267.562	20.22	420.742	463.01	0.225	0.301	7.763	20.22	3.796
2022-08-10 16:00	4165204	8.246	-120.933	266.854	20.234	421.277	463.467	0.225	0.301	7.728	20.234	3.839
2022-08-10 16:15	4166104	8.234	-120.287	271.396	20.298	422.076	463.718	0.225	0.301	7.727	20.298	3.9
2022-08-10 16:30	4167004	8.190	-117.843	274.591	20.346	422.313	463.514	0.225	0.301	7.748	20.346	2.734
2022-08-10 16:45	4167904	8.221	-119.588	280.282	20.378	422.241	463.129	0.225	0.301	7.949	20.378	3.58
2022-08-10 17:00	4168804	8.238	-120.599	268.814	20.447	422.36	462.591	0.225	0.301	8.258	20.447	3.014
2022-08-10 17:15	4169704	8.213	-119.212	276.491	20.533	423.916	463.461	0.225	0.301	8.156	20.533	3.998
2022-08-10 17:30	4170604	8.262	-121.975	273.327	20.538	422.662	462.044	0.225	0.300	8.210	20.538	3.524
2022-08-10 17:45	4171504	8.290	-123.599	272.807	20.578	423.036	462.059	0.225	0.300	8.618	20.578	3.422
2022-08-10 18:00	4172404	8.300	-124.18	268.456	20.587	422.687	461.596	0.224	0.300	8.604	20.587	3.334
2022-08-10 18:15	4173304	8.285	-123.355	271.582	20.632	422.825	461.315	0.224	0.300	8.874	20.632	4.183
2022-08-10 18:30	4174204	8.281	-123.146	275.068	20.741	423.87	461.403	0.224	0.300	9.306	20.741	3.878
2022-08-10 18:45	4175104	8.296	-124.078	276.243	20.854	424.688	461.207	0.224	0.300	9.050	20.854	3.77
2022-08-10 19:00	4176004	8.312	-124.998	257.942	21.001	426.139	461.378	0.224	0.300	9.066	21.001	3.325
2022-08-10 19:15	4176904	8.309	-124.867	272.774	21.098	427.254	461.657	0.224	0.300	9.119	21.098	3.443
2022-08-10 19:30	4177804	8.298	-124.283	274.312	21.147	428.21	462.228	0.225	0.300	8.956	21.147	3.217
2022-08-10 19:45	4178704	8.262	-122.252	271.82	21.184	428.506	462.197	0.225	0.300	9.107	21.184	2.946
2022-08-10 20:00	4179604	8.350	-127.23	264.031	21.131	426.568	460.603	0.224	0.299	8.999	21.131	2.836
2022-08-10 20:15	4180504	8.360	-127.802	269.961	21.088	425.511	459.868	0.224	0.299	9.183	21.088	2.767
2022-08-10 20:30	4181404	8.358	-127.63	269.744	21.05	425.013	459.694	0.223	0.299	9.329	21.05	2.445
2022-08-10 20:45	4182304	8.355	-127.501	271.944	21.026	424.94	459.841	0.223	0.299	9.229	21.026	2.475
2022-08-10 21:00	4183204	8.326	-125.83	264.141	21.014	425.204	460.244	0.224	0.299	9.242	21.014	2.574
2022-08-10 21:15	4184104	8.334	-126.266	272.006	21.017	425.557	460.593	0.224	0.299	9.143	21.017	2.695
2022-08-10 21:30	4185004	8.318	-125.382	272.543	20.988	425.162	460.449	0.224	0.299	9.080	20.988	2.771
2022-08-10 21:45	4185904	8.320	-125.446	271.589	20.984	425.07	460.385	0.224	0.299	9.225	20.984	2.682
2022-08-10 22:00	4186804	8.311	-124.934	266.887	20.977	425.284	460.684	0.224	0.299	9.171	20.977	2.709
2022-08-10 22:15	4187704	8.317	-125.287	274.178	20.984	425.577	460.929	0.224	0.300	9.082	20.984	2.724
2022-08-10 22:30	4188604	8.311	-124.979	275.68	20.998	425.816	461.055	0.224	0.300	9.004	20.998	2.73
2022-08-10 22:45	4189504	8.294	-124.013	276.782	20.988	425.808	461.143	0.224	0.300	8.832	20.988	2.343

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-10 23:00	4190404	8.284	-123.432	266.778	21.006	426.103	461.297	0.224	0.300	8.753	21.006	2.557
2022-08-10 23:15	4191304	8.291	-123.82	275.501	21.022	426.544	461.617	0.224	0.300	8.719	21.022	2.628
2022-08-10 23:30	4192204	8.280	-123.246	277.688	21.07	427.97	462.699	0.225	0.301	8.652	21.07	2.474
2022-08-10 23:45	4193104	8.263	-122.292	276.689	21.1	428.185	462.651	0.225	0.301	8.603	21.1	2.581
2022-08-11 00:00	4194004	8.258	-121.97	269.095	21.068	428.699	463.511	0.225	0.301	8.315	21.068	2.785
2022-08-11 00:15	4194904	8.264	-122.316	273.184	21.058	429.036	463.966	0.226	0.302	8.264	21.058	2.486
2022-08-11 00:30	4195804	8.272	-122.759	273.494	21.008	427.669	462.969	0.225	0.301	8.154	21.008	2.56
2022-08-11 00:45	4196704	8.276	-122.983	274.104	20.956	429.017	464.931	0.226	0.302	8.151	20.956	2.611
2022-08-11 01:00	4197604	8.273	-122.774	262.236	20.897	430.66	467.278	0.227	0.304	8.132	20.897	2.627
2022-08-11 01:15	4198504	8.318	-125.303	265.581	20.88	430.422	467.185	0.227	0.304	7.906	20.88	2.688
2022-08-11 01:30	4199404	8.275	-122.857	265.705	20.801	430.937	468.51	0.228	0.305	7.836	20.801	2.494
2022-08-11 01:45	4200304	8.240	-120.816	267.76	20.746	430.348	468.406	0.228	0.304	7.838	20.746	2.604
2022-08-11 02:00	4201204	8.295	-123.913	261.497	20.632	429.215	468.286	0.228	0.304	7.690	20.632	2.561
2022-08-11 02:15	4202104	8.274	-122.669	268.897	20.565	428.266	467.905	0.228	0.304	7.714	20.565	2.561
2022-08-11 02:30	4203004	8.255	-121.589	271.165	20.472	427.59	468.07	0.228	0.304	7.601	20.472	2.523
2022-08-11 02:45	4203904	8.263	-121.989	273.985	20.438	426.992	467.749	0.227	0.304	7.503	20.438	2.388
2022-08-11 03:00	4204804	8.251	-121.322	263.807	20.406	427.068	468.145	0.228	0.304	7.571	20.406	2.493
2022-08-11 03:15	4205704	8.259	-121.703	273.287	20.331	426.47	468.221	0.228	0.304	7.481	20.331	2.726
2022-08-11 03:30	4206604	8.270	-122.337	270.209	20.255	425.688	468.113	0.228	0.304	7.430	20.255	2.426
2022-08-11 03:45	4207504	8.274	-122.48	270.411	20.155	424.865	468.195	0.228	0.304	7.495	20.155	2.459
2022-08-11 04:00	4208404	8.255	-121.408	268.873	20.081	423.618	467.545	0.227	0.304	7.518	20.081	2.562
2022-08-11 04:15	4209304	8.261	-121.725	273.811	20.057	423.286	467.42	0.227	0.304	7.470	20.057	2.432
2022-08-11 04:30	4210204	8.243	-120.707	277.096	19.987	422.63	467.381	0.227	0.304	7.409	19.987	2.666
2022-08-11 04:45	4211104	8.239	-120.435	277.564	19.928	422.066	467.336	0.227	0.304	7.421	19.928	2.422
2022-08-11 05:00	4212004	8.227	-119.71	265.519	19.883	421.602	467.27	0.227	0.304	7.316	19.883	2.445
2022-08-11 05:15	4212904	8.242	-120.542	275.363	19.846	421.648	467.684	0.227	0.304	7.303	19.846	2.665
2022-08-11 05:30	4213804	8.236	-120.194	276.632	19.796	420.689	467.116	0.227	0.304	7.338	19.796	2.489
2022-08-11 05:45	4214704	8.214	-118.935	275.766	19.741	420.153	467.073	0.227	0.304	7.233	19.741	2.358
2022-08-11 06:00	4215604	8.228	-119.691	271.563	19.653	419.162	466.843	0.227	0.303	7.345	19.653	2.422
2022-08-11 06:15	4216504	8.220	-119.2	276.689	19.614	419.025	467.077	0.227	0.304	7.212	19.614	2.396
2022-08-11 06:30	4217404	8.217	-119.014	278.663	19.546	418.182	466.807	0.227	0.303	7.149	19.546	2.235
2022-08-11 06:45	4218304	8.219	-119.083	279.059	19.45	417.11	466.57	0.227	0.303	7.145	19.45	2.332
2022-08-11 07:00	4219204	8.216	-118.921	272.626	19.425	417.03	466.733	0.227	0.303	7.102	19.425	2.462
2022-08-11 07:15	4220104	8.214	-118.78	281.152	19.407	416.752	466.597	0.227	0.303	7.093	19.407	2.402
2022-08-11 07:30	4221004	8.218	-119.016	277.79	19.39	416.483	466.46	0.227	0.303	7.096	19.39	2.291
2022-08-11 07:45	4221904	8.225	-119.419	276.572	19.339	415.826	466.235	0.227	0.303	7.187	19.339	2.409
2022-08-11 08:00	4222804	8.217	-118.906	274.564	19.27	414.947	465.939	0.226	0.303	7.134	19.27	2.309
2022-08-11 08:15	4223704	8.212	-118.625	278.751	19.28	415.038	465.947	0.226	0.303	7.071	19.28	2.428
2022-08-11 08:30	4224604	8.223	-119.259	279.314	19.227	414.257	465.598	0.226	0.303	7.084	19.227	2.283
2022-08-11 08:45	4225504	8.219	-119.002	277.235	19.196	414.141	465.777	0.226	0.303	7.033	19.196	2.185
2022-08-11 09:00	4226404	8.209	-118.458	265.552	19.185	414.091	465.831	0.226	0.303	7.014	19.185	2.33
2022-08-11 09:15	4227304	8.224	-119.305	275.094	19.184	414.073	465.823	0.226	0.303	7.037	19.184	2.297
2022-08-11 09:30	4228204	8.240	-120.189	275.234	19.161	413.895	465.844	0.226	0.303	7.019	19.161	2.223
2022-08-11 09:45	4229104	8.232	-119.691	275.223	19.127	413.205	465.412	0.226	0.303	7.262	19.127	2.659
2022-08-11 10:00	4230004	8.253	-120.862	261.54	19.081	412.793	465.412	0.226	0.303	7.396	19.081	2.681
2022-08-11 10:15	4230904	8.254	-120.938	269.531	19.059	412.542	465.343	0.226	0.302	7.550	19.059	2.756
2022-08-11 10:30	4231804	8.262	-121.388	270.204	19.04	412.359	465.332	0.226	0.302	7.568	19.04	2.651
2022-08-11 10:45	4232704	8.264	-121.469	269.582	19.04	412.275	465.232	0.226	0.302	7.601	19.04	2.793

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-11 11:00	4233604	8.265	-121.508	259.744	19.037	412.206	465.187	0.226	0.302	7.599	19.037	2.681
2022-08-11 11:15	4234504	8.265	-121.555	265.817	19.096	412.765	465.228	0.226	0.302	7.591	19.096	2.78
2022-08-11 11:30	4235404	8.272	-122.061	261.604	19.358	415.767	465.984	0.226	0.303	7.702	19.358	2.565
2022-08-11 11:45	4236304	8.288	-123.048	256.135	19.587	418.631	466.905	0.227	0.303	7.833	19.587	3.178
2022-08-11 12:00	4237204	8.294	-123.498	250.029	19.812	422.051	468.467	0.228	0.305	7.959	19.812	3.507
2022-08-11 12:15	4238104	8.305	-124.149	255.939	19.941	424.545	469.954	0.228	0.305	8.046	19.941	3.713
2022-08-11 12:30	4239004	8.310	-124.516	250.363	20.073	425.941	470.188	0.229	0.306	8.077	20.073	3.724
2022-08-11 12:45	4239904	8.315	-124.836	248.899	20.193	428.024	471.293	0.229	0.306	8.097	20.193	3.624
2022-08-11 13:00	4240804	8.306	-124.385	238.358	20.297	429.591	471.987	0.230	0.307	8.117	20.297	3.962
2022-08-11 13:15	4241704	8.316	-125.034	246.069	20.463	431.388	472.319	0.230	0.307	8.163	20.463	3.401
2022-08-11 13:30	4242604	8.328	-125.768	246.305	20.577	433.675	473.691	0.230	0.308	8.267	20.577	3.459
2022-08-11 13:45	4243504	8.330	-125.94	244.235	20.785	435.631	473.771	0.230	0.308	8.321	20.785	3.573
2022-08-11 14:00	4244404	8.319	-125.422	239.903	20.97	437.48	473.962	0.231	0.308	8.356	20.97	3.575
2022-08-11 14:15	4245304	8.337	-126.493	244.464	21.101	438.739	474.044	0.231	0.308	8.346	21.101	3.304
2022-08-11 14:30	4246204	8.329	-126.085	243.131	21.178	440.486	475.177	0.231	0.309	8.309	21.178	3.248
2022-08-11 14:45	4247104	8.338	-126.622	243.606	21.301	442.267	475.892	0.232	0.309	8.323	21.301	3.265
2022-08-11 15:00	4248004	8.310	-125.082	246.5	21.426	443.263	475.741	0.231	0.309	8.354	21.426	3.465
2022-08-11 15:15	4248904	8.327	-126.152	249.838	21.621	443.912	474.541	0.231	0.308	9.078	21.621	3.162
2022-08-11 15:30	4249804	8.327	-126.195	253.741	21.76	445.195	474.563	0.231	0.308	9.175	21.76	3.371
2022-08-11 15:45	4250704	8.364	-128.441	247.299	22.042	449.613	476.532	0.232	0.310	9.082	22.042	3.242
2022-08-11 16:00	4251604	8.329	-126.543	242.895	22.271	451.904	476.753	0.232	0.310	8.825	22.271	4.744
2022-08-11 16:15	4252504	8.367	-128.715	251.068	22.249	449.532	474.461	0.231	0.308	8.704	22.249	2.926
2022-08-11 16:30	4253404	8.386	-129.633	255.915	21.918	446.092	473.998	0.231	0.308	9.276	21.918	2.824
2022-08-11 16:45	4254304	8.348	-127.425	257	21.813	445.826	474.723	0.231	0.309	9.477	21.813	3.182
2022-08-11 17:00	4255204	8.364	-128.386	249.657	21.893	445.987	474.126	0.231	0.308	9.448	21.893	2.99
2022-08-11 17:15	4256104	8.367	-128.543	258.111	21.902	445.652	473.677	0.230	0.308	9.605	21.902	2.756
2022-08-11 17:30	4257004	8.363	-128.338	259.046	22.008	445.604	472.609	0.230	0.307	9.864	22.008	2.951
2022-08-11 17:45	4257904	8.377	-129.237	256.452	22.135	446.759	472.618	0.230	0.307	9.940	22.135	3.3
2022-08-11 18:00	4258804	8.424	-131.776	250.625	21.901	443.883	471.809	0.229	0.307	9.814	21.901	2.644
2022-08-11 18:15	4259704	8.407	-130.78	257.978	21.791	442.402	471.288	0.229	0.306	9.790	21.791	2.584
2022-08-11 18:30	4260604	8.395	-130.086	260.195	21.745	442.557	471.892	0.230	0.307	9.812	21.745	2.524
2022-08-11 18:45	4261504	8.388	-129.676	263.526	21.698	441.551	471.273	0.229	0.306	9.660	21.698	2.624
2022-08-11 19:00	4262404	8.385	-129.483	252.079	21.709	442.155	471.807	0.229	0.307	9.767	21.709	2.661
2022-08-11 19:15	4263304	8.388	-129.657	262.56	21.755	442.368	471.593	0.229	0.307	9.837	21.755	2.581
2022-08-11 19:30	4264204	8.393	-129.998	262.348	21.78	442.666	471.677	0.229	0.307	9.825	21.78	2.508
2022-08-11 19:45	4265104	8.393	-129.969	262.944	21.748	442.722	472.04	0.230	0.307	9.640	21.748	2.444
2022-08-11 20:00	4266004	8.382	-129.271	257.315	21.554	440.247	471.268	0.229	0.306	9.541	21.554	2.474
2022-08-11 20:15	4266904	8.376	-128.875	265.252	21.538	439.997	471.15	0.229	0.306	9.470	21.538	2.442
2022-08-11 20:30	4267804	8.370	-128.565	267.042	21.544	440.03	471.133	0.229	0.306	9.360	21.544	2.435
2022-08-11 20:45	4268704	8.371	-128.582	267.483	21.493	439.168	470.697	0.229	0.306	9.352	21.493	2.352
2022-08-11 21:00	4269604	8.364	-128.179	254.816	21.441	439.433	471.484	0.229	0.306	9.325	21.441	2.585
2022-08-11 21:15	4270504	8.366	-128.267	267.171	21.453	439.622	471.574	0.229	0.307	9.277	21.453	2.476
2022-08-11 21:30	4271404	8.362	-128.064	266.458	21.408	439.434	471.803	0.229	0.307	9.135	21.408	2.446
2022-08-11 21:45	4272304	8.361	-127.978	266.062	21.345	439.057	472.012	0.230	0.307	8.972	21.345	2.632
2022-08-11 22:00	4273204	8.347	-127.12	263.235	21.258	437.762	471.459	0.229	0.306	9.024	21.258	2.559
2022-08-11 22:15	4274104	8.345	-127.001	268.063	21.225	437.728	471.742	0.229	0.307	8.956	21.225	2.421
2022-08-11 22:30	4275004	8.338	-126.598	271.522	21.208	438.018	472.222	0.230	0.307	8.887	21.208	2.458
2022-08-11 22:45	4275904	8.315	-125.244	273.809	21.185	438.516	472.985	0.230	0.307	8.776	21.185	2.351

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-11 23:00	4276804	8.312	-125.115	267.045	21.187	438.165	472.579	0.230	0.307	8.622	21.187	2.378
2022-08-11 23:15	4277704	8.305	-124.722	273.163	21.191	438.367	472.763	0.230	0.307	8.557	21.191	2.427
2022-08-11 23:30	4278604	8.297	-124.233	272.469	21.18	438.73	473.263	0.230	0.308	8.407	21.18	2.316
2022-08-11 23:45	4279504	8.278	-123.138	273.48	21.166	438.955	473.635	0.230	0.308	8.310	21.166	2.4
2022-08-12 00:00	4280404	8.278	-123.155	268.916	21.126	439.47	474.591	0.231	0.308	8.167	21.126	2.358
2022-08-12 00:15	4281304	8.267	-122.497	274.488	21.093	439.912	475.386	0.231	0.309	8.041	21.093	2.452
2022-08-12 00:30	4282204	8.258	-121.965	277.189	21.067	439.519	475.219	0.231	0.309	7.895	21.067	2.241
2022-08-12 00:45	4283104	8.261	-122.139	277.759	21.051	439.155	474.983	0.231	0.309	7.820	21.051	2.303
2022-08-12 01:00	4284004	8.250	-121.534	271.16	21.041	439.123	475.048	0.231	0.309	7.798	21.041	2.557
2022-08-12 01:15	4284904	8.267	-122.466	278.143	21.026	439.11	475.181	0.231	0.309	7.790	21.026	2.464
2022-08-12 01:30	4285804	8.253	-121.651	277.082	20.991	438.87	475.261	0.231	0.309	7.685	20.991	2.406
2022-08-12 01:45	4286704	8.264	-122.283	274.82	20.94	438.569	475.438	0.231	0.309	7.661	20.94	2.848
2022-08-12 02:00	4287604	8.252	-121.565	272.853	20.864	437.534	475.067	0.231	0.309	7.699	20.864	2.567
2022-08-12 02:15	4288504	8.247	-121.245	277.428	20.839	437.188	474.932	0.231	0.309	7.663	20.839	2.439
2022-08-12 02:30	4289404	8.196	-118.365	279.519	20.81	437.488	475.544	0.231	0.309	7.543	20.81	2.424
2022-08-12 02:45	4290304	8.211	-119.169	280.997	20.786	436.819	475.059	0.231	0.309	7.215	20.786	2.395
2022-08-12 03:00	4291204	8.224	-119.941	269.152	20.773	436.845	475.212	0.231	0.309	7.323	20.773	2.382
2022-08-12 03:15	4292104	8.239	-120.8	279.619	20.774	436.92	475.281	0.231	0.309	7.335	20.774	2.517
2022-08-12 03:30	4293004	8.282	-123.222	276.772	20.744	436.94	475.599	0.231	0.309	7.363	20.744	2.672
2022-08-12 03:45	4293904	8.259	-121.908	274.975	20.724	436.864	475.722	0.231	0.309	7.608	20.724	2.42
2022-08-12 04:00	4294804	8.289	-123.599	269.57	20.665	436.267	475.655	0.231	0.309	7.623	20.665	2.547
2022-08-12 04:15	4295704	8.320	-125.296	273.906	20.618	435.473	475.252	0.231	0.309	7.696	20.618	2.618
2022-08-12 04:30	4296604	8.299	-124.111	276.071	20.595	435.455	475.455	0.231	0.309	7.925	20.595	2.467
2022-08-12 04:45	4297504	8.282	-123.136	278.761	20.55	435.049	475.46	0.231	0.309	7.812	20.55	2.468
2022-08-12 05:00	4298404	8.264	-122.092	269.796	20.527	435.052	475.691	0.231	0.309	7.693	20.527	2.563
2022-08-12 05:15	4299304	8.267	-122.24	278.033	20.515	434.988	475.743	0.231	0.309	7.545	20.515	2.292
2022-08-12 05:30	4300204	8.279	-122.905	276.417	20.449	434.46	475.82	0.231	0.309	7.434	20.449	2.558
2022-08-12 05:45	4301104	8.271	-122.44	275.318	20.419	433.788	475.385	0.231	0.309	7.610	20.419	2.451
2022-08-12 06:00	4302004	8.240	-120.664	269.765	20.323	432.982	475.455	0.231	0.309	7.460	20.323	2.437
2022-08-12 06:15	4302904	8.266	-122.144	275.89	20.324	432.776	475.215	0.231	0.309	7.265	20.324	2.389
2022-08-12 06:30	4303804	8.259	-121.689	277.452	20.282	432.236	475.049	0.231	0.309	7.425	20.282	2.356
2022-08-12 06:45	4304704	8.260	-121.751	280.186	20.254	431.865	474.916	0.231	0.309	7.489	20.254	2.413
2022-08-12 07:00	4305604	8.255	-121.448	271.088	20.201	431.396	474.925	0.231	0.309	7.524	20.201	2.386
2022-08-12 07:15	4306504	8.279	-122.797	278.942	20.175	431.199	474.976	0.231	0.309	7.518	20.175	2.408
2022-08-12 07:30	4307404	8.252	-121.272	276	20.167	431.244	475.097	0.231	0.309	7.501	20.167	2.315
2022-08-12 07:45	4308304	8.273	-122.423	274.076	20.128	430.755	474.954	0.231	0.309	7.354	20.128	2.461
2022-08-12 08:00	4309204	8.230	-119.998	271.67	20.067	430.395	475.166	0.231	0.309	7.395	20.067	2.59
2022-08-12 08:15	4310104	8.233	-120.125	274.986	20.056	430.006	474.844	0.231	0.309	7.291	20.056	2.309
2022-08-12 08:30	4311004	8.246	-120.84	277.809	20.027	430.026	475.163	0.231	0.309	7.336	20.027	2.327
2022-08-12 08:45	4311904	8.245	-120.804	277.34	20.003	429.285	474.582	0.231	0.308	7.276	20.003	2.209
2022-08-12 09:00	4312804	8.230	-119.96	274.097	19.983	429.427	474.937	0.231	0.309	7.277	19.983	2.332
2022-08-12 09:15	4313704	8.248	-120.966	276.98	19.973	429.564	475.187	0.231	0.309	7.222	19.973	2.439
2022-08-12 09:30	4314604	8.239	-120.423	274.913	19.975	429.14	474.697	0.231	0.309	7.249	19.975	3.252
2022-08-12 09:45	4315504	8.249	-121.005	272.602	19.94	428.663	474.525	0.231	0.308	7.416	19.94	2.556
2022-08-12 10:00	4316404	8.242	-120.606	268.583	19.939	428.914	474.808	0.231	0.309	7.278	19.939	2.179
2022-08-12 10:15	4317304	8.265	-121.875	271.97	19.895	428.442	474.73	0.231	0.309	7.260	19.895	2.356
2022-08-12 10:30	4318204	8.259	-121.541	273.62	19.897	428.48	474.75	0.231	0.309	7.372	19.897	2.324
2022-08-12 10:45	4319104	8.237	-120.289	275.625	19.89	428.266	474.582	0.231	0.308	7.187	19.89	2.277

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-12 11:00	4320004	8.232	-120.01	264.119	19.889	428.247	474.572	0.231	0.308	7.194	19.889	2.297
2022-08-12 11:15	4320904	8.236	-120.242	267.231	19.91	428.467	474.606	0.231	0.308	7.158	19.91	2.164
2022-08-12 11:30	4321804	8.226	-119.71	270.724	19.945	428.819	474.647	0.231	0.309	7.136	19.945	2.117
2022-08-12 11:45	4322704	8.222	-119.491	271.882	20.023	429.394	474.502	0.231	0.308	7.246	20.023	2.45
2022-08-12 12:00	4323604	8.261	-121.748	262.753	20.164	430.711	474.547	0.231	0.308	7.824	20.164	3.164
2022-08-12 12:15	4324504	8.273	-122.635	266.875	20.6	434.671	474.555	0.231	0.308	8.025	20.6	2.509
2022-08-12 12:30	4325404	8.291	-123.839	259.022	21.03	438.889	474.897	0.231	0.309	8.311	21.03	2.927
2022-08-12 12:45	4326304	8.293	-123.956	258.729	21.078	439.638	475.237	0.231	0.309	8.289	21.078	2.533
2022-08-12 13:00	4327204	8.295	-124.111	250.413	21.123	440.395	475.611	0.231	0.309	8.156	21.123	2.617
2022-08-12 13:15	4328104	8.323	-125.697	258.564	21.177	440.422	475.119	0.231	0.309	8.077	21.177	2.594
2022-08-12 13:30	4329004	8.375	-128.634	255.119	21.062	438.391	474.044	0.231	0.308	8.378	21.062	2.472
2022-08-12 13:45	4329904	8.364	-128.021	259.179	21.105	435.911	470.951	0.229	0.306	10.046	21.105	2.438
2022-08-12 14:00	4330804	8.354	-127.535	255.005	21.282	439.364	472.952	0.230	0.307	9.126	21.282	2.554
2022-08-12 14:15	4331704	8.392	-129.695	258.779	21.299	437.856	471.161	0.229	0.306	8.973	21.299	2.37
2022-08-12 14:30	4332604	8.413	-130.863	258.154	21.256	436.567	470.194	0.229	0.306	9.532	21.256	2.463
2022-08-12 14:45	4333504	8.403	-130.281	263.175	21.225	437.005	470.966	0.229	0.306	9.824	21.225	2.409
2022-08-12 15:00	4334404	8.386	-129.364	258.512	21.284	437.435	470.85	0.229	0.306	9.809	21.284	2.468
2022-08-12 15:15	4335304	8.383	-129.206	264.076	21.357	438.261	471.033	0.229	0.306	9.900	21.357	2.402
2022-08-12 15:30	4336204	8.405	-130.475	262.083	21.407	438.86	471.196	0.229	0.306	9.714	21.407	2.353
2022-08-12 15:45	4337104	8.398	-130.064	261.845	21.409	438.833	471.148	0.229	0.306	9.795	21.409	2.359
2022-08-12 16:00	4338004	8.384	-129.282	260.953	21.424	438.924	471.105	0.229	0.306	9.863	21.424	2.556
2022-08-12 16:15	4338904	8.382	-129.228	263.206	21.48	439.7	471.391	0.229	0.306	9.830	21.48	2.447
2022-08-12 16:30	4339804	8.409	-130.768	262.996	21.512	439.765	471.157	0.229	0.306	9.761	21.512	2.477
2022-08-12 16:45	4340704	8.387	-129.557	267.317	21.599	440.824	471.446	0.229	0.306	9.946	21.599	2.363
2022-08-12 17:00	4341604	8.404	-130.517	253.274	21.615	440.855	471.332	0.229	0.306	9.997	21.615	2.424
2022-08-12 17:15	4342504	8.407	-130.689	265.19	21.65	441.105	471.254	0.229	0.306	10.056	21.65	2.445
2022-08-12 17:30	4343404	8.398	-130.241	264.887	21.735	441.327	470.676	0.229	0.306	10.072	21.735	2.454
2022-08-12 17:45	4344304	8.417	-131.35	263.795	21.753	441.805	471.02	0.229	0.306	10.090	21.753	2.403
2022-08-12 18:00	4345204	8.422	-131.609	256.869	21.701	441.307	470.986	0.229	0.306	10.027	21.701	2.402
2022-08-12 18:15	4346104	8.427	-131.845	262.768	21.612	440.317	470.785	0.229	0.306	9.891	21.612	2.374
2022-08-12 18:30	4347004	8.405	-130.546	265.218	21.555	440.312	471.325	0.229	0.306	9.878	21.555	2.463
2022-08-12 18:45	4347904	8.406	-130.56	262.853	21.476	439.882	471.624	0.229	0.307	9.832	21.476	2.533
2022-08-12 19:00	4348804	8.344	-126.903	258.788	21.119	438.157	473.235	0.230	0.308	9.188	21.119	2.913
2022-08-12 19:15	4349704	8.324	-125.63	271.513	20.876	436.588	473.915	0.231	0.308	8.510	20.876	2.784
2022-08-12 19:30	4350604	8.303	-124.447	271.718	20.818	436.461	474.352	0.231	0.308	8.461	20.818	2.629
2022-08-12 19:45	4351504	8.311	-124.946	269.62	20.982	438.036	474.448	0.231	0.308	8.648	20.982	2.7
2022-08-12 20:00	4352404	8.326	-125.918	262.067	21.21	439.61	473.914	0.231	0.308	8.663	21.21	3.113
2022-08-12 20:15	4353304	8.325	-125.916	262.732	21.394	441.074	473.697	0.230	0.308	8.702	21.394	2.897
2022-08-12 20:30	4354204	8.326	-126.021	262.698	21.463	441.672	473.674	0.230	0.308	8.526	21.463	2.9
2022-08-12 20:45	4355104	8.335	-126.567	259.248	21.514	442.233	473.777	0.230	0.308	8.512	21.514	3.21
2022-08-12 21:00	4356004	8.264	-122.387	252.701	21.261	440.899	474.812	0.231	0.309	8.045	21.261	2.579
2022-08-12 21:15	4356904	8.301	-124.454	267.691	21.156	440.162	475.042	0.231	0.309	7.713	21.156	2.782
2022-08-12 21:30	4357804	8.265	-122.406	269.067	21.145	439.875	474.837	0.231	0.309	7.901	21.145	2.783
2022-08-12 21:45	4358704	8.261	-122.173	267.953	21.16	439.739	474.546	0.231	0.308	7.829	21.16	2.596
2022-08-12 22:00	4359604	8.265	-122.406	263.919	21.194	440.368	474.886	0.231	0.309	7.836	21.194	2.748
2022-08-12 22:15	4360504	8.270	-122.716	268.137	21.239	441.029	475.158	0.231	0.309	7.897	21.239	2.513
2022-08-12 22:30	4361404	8.297	-124.264	269.98	21.272	441.053	474.864	0.231	0.309	7.913	21.272	2.578
2022-08-12 22:45	4362304	8.351	-127.332	262.708	21.263	439.454	473.228	0.230	0.308	8.379	21.263	2.618

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-12 23:00	4363204	8.318	-125.496	255.651	21.257	439.363	473.192	0.230	0.308	8.234	21.257	3.789
2022-08-12 23:15	4364104	8.317	-125.396	263.69	21.254	439.531	473.401	0.230	0.308	8.114	21.254	2.372
2022-08-12 23:30	4365004	8.341	-126.779	260.483	21.22	439.306	473.496	0.230	0.308	7.959	21.22	2.662
2022-08-12 23:45	4365904	8.337	-126.514	260.82	21.179	438.707	473.243	0.230	0.308	8.307	21.179	2.671
2022-08-13 00:00	4366804	8.343	-126.846	255.093	21.114	438.917	474.109	0.231	0.308	8.401	21.114	2.761
2022-08-13 00:15	4367704	8.332	-126.226	262.028	21.121	439.328	474.485	0.231	0.308	8.214	21.121	2.651
2022-08-13 00:30	4368604	8.327	-125.928	263.378	21.118	439.744	474.956	0.231	0.309	8.189	21.118	2.488
2022-08-13 00:45	4369504	8.341	-126.703	265.521	21.12	439.928	475.143	0.231	0.309	8.137	21.12	2.402
2022-08-13 01:00	4370404	8.331	-126.135	259.079	21.091	439.431	474.892	0.231	0.309	8.148	21.091	2.683
2022-08-13 01:15	4371304	8.302	-124.505	265.586	21.057	439.388	475.176	0.231	0.309	7.857	21.057	2.747
2022-08-13 01:30	4372204	8.282	-123.358	266.83	21.053	439.483	475.314	0.231	0.309	7.778	21.053	2.369
2022-08-13 01:45	4373104	8.304	-124.559	267.789	21.03	439.502	475.559	0.231	0.309	7.655	21.03	2.425
2022-08-13 02:00	4374004	8.292	-123.887	265.187	20.991	439.342	475.772	0.231	0.309	7.577	20.991	2.385
2022-08-13 02:15	4374904	8.308	-124.798	270.466	20.968	439.211	475.853	0.231	0.309	7.543	20.968	2.346
2022-08-13 02:30	4375804	8.311	-124.927	270.247	20.898	438.349	475.609	0.231	0.309	7.603	20.898	2.397
2022-08-13 02:45	4376704	8.310	-124.879	272.073	20.88	438.07	475.491	0.231	0.309	7.620	20.88	2.397
2022-08-13 03:00	4377604	8.295	-123.973	267.188	20.824	437.867	475.816	0.231	0.309	7.723	20.824	2.439
2022-08-13 03:15	4378504	8.309	-124.745	272.85	20.816	437.895	475.93	0.232	0.309	7.564	20.816	2.362
2022-08-13 03:30	4379404	8.283	-123.258	272.23	20.755	437.133	475.706	0.231	0.309	7.600	20.755	2.556
2022-08-13 03:45	4380304	8.289	-123.632	269.586	20.741	437.378	476.107	0.232	0.309	7.449	20.741	2.467
2022-08-13 04:00	4381204	8.280	-123.053	267.114	20.666	436.646	476.054	0.232	0.309	7.408	20.666	2.332
2022-08-13 04:15	4382104	8.268	-122.364	273.401	20.621	436.187	475.998	0.232	0.309	7.435	20.621	2.336
2022-08-13 04:30	4383004	8.275	-122.759	275.711	20.581	435.747	475.912	0.232	0.309	7.390	20.581	2.422
2022-08-13 04:45	4383904	8.263	-122.044	274.86	20.52	435.233	475.958	0.232	0.309	7.494	20.52	2.583
2022-08-13 05:00	4384804	8.271	-122.449	266.051	20.459	434.754	476.039	0.232	0.309	7.455	20.459	2.617
2022-08-13 05:15	4385704	8.277	-122.828	272.674	20.464	434.731	475.97	0.232	0.309	7.363	20.464	2.46
2022-08-13 05:30	4386604	8.267	-122.218	271.706	20.432	434.547	476.08	0.232	0.309	7.195	20.432	2.386
2022-08-13 05:45	4387504	8.265	-122.099	271.911	20.41	434.436	476.183	0.232	0.310	7.186	20.41	2.443
2022-08-13 06:00	4388404	8.274	-122.59	269.262	20.301	433.17	475.884	0.231	0.309	7.373	20.301	2.467
2022-08-13 06:15	4389304	8.247	-121.04	275.346	20.29	433.129	475.949	0.232	0.309	7.213	20.29	2.29
2022-08-13 06:30	4390204	8.266	-122.094	275.554	20.247	432.645	475.838	0.231	0.309	7.334	20.247	2.308
2022-08-13 06:45	4391104	8.250	-121.2	276.202	20.217	432.48	475.965	0.232	0.309	7.287	20.217	2.248
2022-08-13 07:00	4392004	8.260	-121.701	267.207	20.178	432.2	476.047	0.232	0.309	7.088	20.178	2.311
2022-08-13 07:15	4392904	8.288	-123.277	274.102	20.156	431.707	475.721	0.231	0.309	7.343	20.156	2.415
2022-08-13 07:30	4393804	8.260	-121.684	273.866	20.133	431.584	475.816	0.231	0.309	7.361	20.133	2.394
2022-08-13 07:45	4394704	8.270	-122.261	271.622	20.086	431.151	475.806	0.231	0.309	7.545	20.086	2.492
2022-08-13 08:00	4395604	8.275	-122.54	268.354	20.049	430.65	475.631	0.231	0.309	7.517	20.049	2.415
2022-08-13 08:15	4396504	8.273	-122.392	274.882	20.047	430.62	475.613	0.231	0.309	7.411	20.047	2.351
2022-08-13 08:30	4397404	8.286	-123.112	274.82	20.028	430.314	475.471	0.231	0.309	7.375	20.028	2.531
2022-08-13 08:45	4398304	8.267	-122.032	275.47	20.011	430.15	475.453	0.231	0.309	7.526	20.011	2.615
2022-08-13 09:00	4399204	8.272	-122.34	268.022	20.004	430.227	475.612	0.231	0.309	7.494	20.004	2.351
2022-08-13 09:15	4400104	8.280	-122.805	272.619	20.004	430.134	475.509	0.231	0.309	7.375	20.004	2.256
2022-08-13 09:30	4401004	8.275	-122.478	270.645	19.992	430.076	475.561	0.231	0.309	7.505	19.992	2.259
2022-08-13 09:45	4401904	8.284	-122.979	268.835	19.993	430.059	475.54	0.231	0.309	7.549	19.993	2.396
2022-08-13 10:00	4402804	8.280	-122.755	263.745	19.987	429.864	475.385	0.231	0.309	7.414	19.987	2.467
2022-08-13 10:15	4403704	8.281	-122.817	268.69	19.998	430.292	475.742	0.231	0.309	7.374	19.998	2.215
2022-08-13 10:30	4404604	8.259	-121.598	272.197	20.015	430.697	476.018	0.232	0.309	7.194	20.015	2.189
2022-08-13 10:45	4405504	8.256	-121.434	268.575	20.016	430.675	475.984	0.232	0.309	7.049	20.016	2.126

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-13 11:00	4406404	8.244	-120.771	258.548	20.033	430.663	475.806	0.231	0.309	7.113	20.033	2.219
2022-08-13 11:15	4407304	8.236	-120.311	264.751	20.072	430.862	475.635	0.231	0.309	7.117	20.072	2.348
2022-08-13 11:30	4408204	8.233	-120.175	267.069	20.113	431.263	475.66	0.231	0.309	7.149	20.113	2.281
2022-08-13 11:45	4409104	8.233	-120.208	267.936	20.163	431.618	475.552	0.231	0.309	7.205	20.163	2.174
2022-08-13 12:00	4410004	8.248	-121.083	264.308	20.241	432.255	475.476	0.231	0.309	7.454	20.241	2.611
2022-08-13 12:15	4410904	8.269	-122.285	267.886	20.347	432.873	475.092	0.231	0.309	7.974	20.347	2.472
2022-08-13 12:30	4411804	8.284	-123.231	268.277	20.476	434.167	475.236	0.231	0.309	7.962	20.476	2.541
2022-08-13 12:45	4412704	8.272	-122.597	270.359	20.588	435.139	475.18	0.231	0.309	8.028	20.588	2.39
2022-08-13 13:00	4413604	8.292	-123.727	267.595	20.688	435.674	474.778	0.231	0.309	8.186	20.688	2.408
2022-08-13 13:15	4414504	8.289	-123.672	266.189	20.881	436.93	474.241	0.231	0.308	8.369	20.881	2.527
2022-08-13 13:30	4415404	8.305	-124.631	264.949	20.993	436.876	473.081	0.230	0.308	8.590	20.993	2.551
2022-08-13 13:45	4416304	8.285	-123.498	266.167	21.049	437.824	473.556	0.230	0.308	8.880	21.049	2.244
2022-08-13 14:00	4417204	8.319	-125.451	258.812	21.054	440.724	476.645	0.232	0.310	8.419	21.054	2.906
2022-08-13 14:15	4418104	8.329	-125.992	266.685	21.072	440.329	476.041	0.232	0.309	8.181	21.072	2.867
2022-08-13 14:30	4419004	8.304	-124.645	269.658	21.136	441.527	476.711	0.232	0.310	8.280	21.136	2.831
2022-08-13 14:45	4419904	8.310	-124.943	271.105	21.15	441.827	476.896	0.232	0.310	8.127	21.15	2.762
2022-08-13 15:00	4420804	8.311	-125.062	263.671	21.199	441.298	475.847	0.231	0.309	8.112	21.199	2.833
2022-08-13 15:15	4421704	8.324	-125.816	269.546	21.26	440.922	474.84	0.231	0.309	8.621	21.26	2.874
2022-08-13 15:30	4422604	8.338	-126.612	270.514	21.282	440.366	474.028	0.231	0.308	8.956	21.282	2.739
2022-08-13 15:45	4423504	8.389	-129.535	260.095	21.254	439.6	473.473	0.230	0.308	9.317	21.254	2.617
2022-08-13 16:00	4424404	8.359	-127.778	258.912	21.194	440.071	474.573	0.231	0.308	8.916	21.194	2.622
2022-08-13 16:15	4425304	8.348	-127.113	265.39	21.136	439.58	474.604	0.231	0.308	8.767	21.136	2.9
2022-08-13 16:30	4426204	8.355	-127.53	267.011	21.159	439.573	474.372	0.231	0.308	8.790	21.159	2.916
2022-08-13 16:45	4427104	8.360	-127.776	267.185	21.124	439.113	474.223	0.231	0.308	8.830	21.124	2.639
2022-08-13 17:00	4428004	8.338	-126.507	257.637	21.071	439.095	474.718	0.231	0.309	8.650	21.071	2.88
2022-08-13 17:15	4428904	8.333	-126.257	267.598	21.034	438.998	474.978	0.231	0.309	8.479	21.034	2.897
2022-08-13 17:30	4429804	8.331	-126.092	269.231	21.017	438.972	475.114	0.231	0.309	8.342	21.017	2.626
2022-08-13 17:45	4430704	8.320	-125.432	266.864	20.852	437.041	474.643	0.231	0.309	8.342	20.852	2.62
2022-08-13 18:00	4431604	8.312	-124.853	263.75	20.659	435.561	474.936	0.231	0.309	8.271	20.659	2.808
2022-08-13 18:15	4432504	8.308	-124.645	270.237	20.615	434.947	474.707	0.231	0.309	8.221	20.615	2.89
2022-08-13 18:30	4433404	8.299	-124.111	272.516	20.539	434.432	474.891	0.231	0.309	8.109	20.539	2.675
2022-08-13 18:45	4434304	8.299	-124.052	274.667	20.511	434.446	475.19	0.231	0.309	8.053	20.511	2.866
2022-08-13 19:00	4435204	8.293	-123.72	265.791	20.51	434.427	475.18	0.231	0.309	7.974	20.51	4.544
2022-08-13 19:15	4436104	8.283	-123.162	277.13	20.511	434.476	475.224	0.231	0.309	7.947	20.511	2.817
2022-08-13 19:30	4437004	8.290	-123.587	275.406	20.504	434.561	475.382	0.231	0.309	7.869	20.504	2.689
2022-08-13 19:45	4437904	8.288	-123.439	274.972	20.504	434.527	475.348	0.231	0.309	7.785	20.504	2.577
2022-08-13 20:00	4438804	8.285	-123.281	268.666	20.489	434.058	474.981	0.231	0.309	7.710	20.489	2.86
2022-08-13 20:15	4439704	8.287	-123.398	271.229	20.493	434.114	475.001	0.231	0.309	7.791	20.493	2.245
2022-08-13 20:30	4440604	8.278	-122.845	273.997	20.457	433.483	474.667	0.231	0.309	7.932	20.457	2.661
2022-08-13 20:45	4441504	8.278	-122.876	273.146	20.446	433.504	474.804	0.231	0.309	7.854	20.446	2.939
2022-08-13 21:00	4442404	8.274	-122.6	261.654	20.423	433.091	474.583	0.231	0.308	7.776	20.423	3.214
2022-08-13 21:15	4443304	8.278	-122.852	270.867	20.429	433.159	474.597	0.231	0.308	7.755	20.429	2.525
2022-08-13 21:30	4444204	8.268	-122.256	272.834	20.433	433.227	474.628	0.231	0.309	7.847	20.433	2.822
2022-08-13 21:45	4445104	8.292	-123.62	271.148	20.429	433.272	474.718	0.231	0.309	8.025	20.429	2.931
2022-08-13 22:00	4446004	8.296	-123.882	267.281	20.394	433.235	475.03	0.231	0.309	7.922	20.394	2.98
2022-08-13 22:15	4446904	8.300	-124.083	275.118	20.402	433.431	475.156	0.231	0.309	8.108	20.402	2.934
2022-08-13 22:30	4447804	8.309	-124.612	274.5	20.482	434.895	475.963	0.232	0.309	8.097	20.482	2.79
2022-08-13 22:45	4448704	8.304	-124.39	276.639	20.631	436.637	476.386	0.232	0.310	8.142	20.631	2.645

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-13 23:00	4449604	8.326	-125.723	267.975	20.737	438.598	477.475	0.232	0.310	8.145	20.737	2.819
2022-08-13 23:15	4450504	8.332	-126.047	272.662	20.758	438.954	477.66	0.232	0.310	8.212	20.758	2.528
2022-08-13 23:30	4451404	8.333	-126.104	270.9	20.752	438.988	477.753	0.232	0.311	8.346	20.752	2.639
2022-08-13 23:45	4452304	8.344	-126.7	268.573	20.717	438.798	477.89	0.233	0.311	8.211	20.717	2.566
2022-08-14 00:00	4453204	8.341	-126.507	262.949	20.685	438.627	478.02	0.233	0.311	8.256	20.685	2.659
2022-08-14 00:15	4454104	8.342	-126.581	268.847	20.676	438.505	477.976	0.233	0.311	8.192	20.676	2.647
2022-08-14 00:30	4455004	8.341	-126.536	270.912	20.632	438.33	478.232	0.233	0.311	8.239	20.632	2.918
2022-08-14 00:45	4455904	8.331	-125.93	270.838	20.603	438.09	478.256	0.233	0.311	8.179	20.603	3.114
2022-08-14 01:00	4456804	8.333	-126.038	263.871	20.558	437.686	478.264	0.233	0.311	8.109	20.558	2.741
2022-08-14 01:15	4457704	8.348	-126.855	270.447	20.567	437.761	478.25	0.233	0.311	8.038	20.567	2.39
2022-08-14 01:30	4458604	8.352	-127.072	269.288	20.539	437.583	478.343	0.233	0.311	8.053	20.539	2.285
2022-08-14 01:45	4459504	8.351	-127.041	269.381	20.491	436.87	478.038	0.233	0.311	8.173	20.491	2.613
2022-08-14 02:00	4460404	8.346	-126.722	264.384	20.469	436.956	478.358	0.233	0.311	8.183	20.469	2.625
2022-08-14 02:15	4461304	8.345	-126.66	271.064	20.468	437.09	478.509	0.233	0.311	8.145	20.468	2.56
2022-08-14 02:30	4462204	8.332	-125.945	272.736	20.475	437.442	478.828	0.233	0.311	7.996	20.475	2.2
2022-08-14 02:45	4463104	8.330	-125.821	272.712	20.445	437.033	478.683	0.233	0.311	7.921	20.445	2.365
2022-08-14 03:00	4464004	8.311	-124.733	266.391	20.422	436.74	478.585	0.233	0.311	7.785	20.422	2.486
2022-08-14 03:15	4464904	8.333	-125.94	272.953	20.415	436.576	478.48	0.233	0.311	8.036	20.415	2.483
2022-08-14 03:30	4465804	8.316	-125.005	272.066	20.395	436.445	478.535	0.233	0.311	7.796	20.395	2.412
2022-08-14 03:45	4466704	8.310	-124.645	270.7	20.382	436.519	478.743	0.233	0.311	7.727	20.382	2.215
2022-08-14 04:00	4467604	8.319	-125.144	266.721	20.317	435.887	478.7	0.233	0.311	7.535	20.317	2.283
2022-08-14 04:15	4468504	8.288	-123.358	273.115	20.286	435.628	478.737	0.233	0.311	7.504	20.286	2.313
2022-08-14 04:30	4469404	8.287	-123.265	275.969	20.257	435.348	478.719	0.233	0.311	7.457	20.257	2.301
2022-08-14 04:45	4470304	8.310	-124.598	275.501	20.223	434.874	478.535	0.233	0.311	7.801	20.223	2.493
2022-08-14 05:00	4471204	8.292	-123.575	269.787	20.202	434.819	478.688	0.233	0.311	7.541	20.202	2.326
2022-08-14 05:15	4472104	8.306	-124.354	275.497	20.197	434.803	478.716	0.233	0.311	7.571	20.197	2.392
2022-08-14 05:30	4473004	8.316	-124.869	273.334	20.145	434.108	478.482	0.233	0.311	7.799	20.145	2.374
2022-08-14 05:45	4473904	8.315	-124.841	273.716	20.137	434.105	478.556	0.233	0.311	7.691	20.137	2.415
2022-08-14 06:00	4474804	8.295	-123.675	271.918	20.071	433.471	478.525	0.233	0.311	7.474	20.071	2.481
2022-08-14 06:15	4475704	8.279	-122.733	275.833	20.055	433.672	478.905	0.233	0.311	7.516	20.055	2.251
2022-08-14 06:30	4476604	8.270	-122.194	276.558	20.003	432.825	478.498	0.233	0.311	7.493	20.003	2.277
2022-08-14 06:45	4477504	8.266	-121.977	277.731	19.975	432.535	478.455	0.233	0.311	7.512	19.975	2.399
2022-08-14 07:00	4478404	8.287	-123.172	266.847	19.921	432.018	478.434	0.233	0.311	7.538	19.921	2.883
2022-08-14 07:15	4479304	8.286	-123.119	278.055	19.932	431.931	478.221	0.233	0.311	7.668	19.932	2.416
2022-08-14 07:30	4480204	8.291	-123.374	274.615	19.917	431.739	478.166	0.233	0.311	7.704	19.917	2.553
2022-08-14 07:45	4481104	8.288	-123.179	275.115	19.922	431.894	478.282	0.233	0.311	7.608	19.922	2.479
2022-08-14 08:00	4482004	8.288	-123.203	269.839	19.922	432.028	478.433	0.233	0.311	7.635	19.922	2.474
2022-08-14 08:15	4482904	8.284	-122.976	274.839	19.93	432.355	478.71	0.233	0.311	7.492	19.93	2.423
2022-08-14 08:30	4483804	8.274	-122.423	275.053	19.928	432.539	478.934	0.233	0.311	7.334	19.928	2.468
2022-08-14 08:45	4484704	8.277	-122.588	275.423	19.931	432.224	478.558	0.233	0.311	7.265	19.931	2.31
2022-08-14 09:00	4485604	8.279	-122.702	266.556	19.915	431.958	478.42	0.233	0.311	7.442	19.915	2.418
2022-08-14 09:15	4486504	8.284	-122.974	273.263	19.924	431.848	478.208	0.233	0.311	7.521	19.924	2.465
2022-08-14 09:30	4487404	8.283	-122.912	271.343	19.923	431.825	478.194	0.233	0.311	7.503	19.923	2.466
2022-08-14 09:45	4488304	8.270	-122.19	270.764	19.913	431.577	478.021	0.233	0.311	7.473	19.913	2.593
2022-08-14 10:00	4489204	8.280	-122.714	268.571	19.863	431.181	478.085	0.233	0.311	7.554	19.863	2.594
2022-08-14 10:15	4490104	8.282	-122.807	271.525	19.826	430.663	477.884	0.232	0.311	7.628	19.826	2.45
2022-08-14 10:30	4491004	8.281	-122.745	270.831	19.801	430.372	477.819	0.232	0.311	7.647	19.801	2.378
2022-08-14 10:45	4491904	8.281	-122.733	271.448	19.8	430.367	477.823	0.232	0.311	7.686	19.8	2.502

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-14 11:00	4492804	8.293	-123.413	265.969	19.806	430.114	477.48	0.232	0.310	7.737	19.806	2.802
2022-08-14 11:15	4493704	8.301	-123.873	271.756	19.816	430.089	477.35	0.232	0.310	7.812	19.816	2.467
2022-08-14 11:30	4494604	8.303	-124.023	270.776	19.821	430.032	477.245	0.232	0.310	7.848	19.821	2.523
2022-08-14 11:45	4495504	8.305	-124.13	269.536	19.839	430.102	477.133	0.232	0.310	7.921	19.839	2.363
2022-08-14 12:00	4496404	8.309	-124.347	263.442	19.862	430.218	477.035	0.232	0.310	8.049	19.862	2.423
2022-08-14 12:15	4497304	8.325	-125.289	267.951	19.902	430.591	477.046	0.232	0.310	8.099	19.902	2.493
2022-08-14 12:30	4498204	8.314	-124.671	268.063	19.915	431.012	477.372	0.232	0.310	7.833	19.915	2.626
2022-08-14 12:45	4499104	8.314	-124.648	269.224	19.913	430.92	477.298	0.232	0.310	7.819	19.913	2.591
2022-08-14 13:00	4500004	8.305	-124.154	261.182	19.915	431.064	477.436	0.232	0.310	7.756	19.915	2.523
2022-08-14 13:15	4500904	8.309	-124.402	267.791	19.914	431.071	477.456	0.232	0.310	7.701	19.914	2.649
2022-08-14 13:30	4501804	8.298	-123.761	267.245	19.9	431	477.518	0.232	0.310	7.649	19.9	2.86
2022-08-14 13:45	4502704	8.289	-123.241	266.883	19.878	430.736	477.444	0.232	0.310	7.627	19.878	2.858
2022-08-14 14:00	4503604	8.286	-123.093	262.3	19.875	430.71	477.446	0.232	0.310	7.583	19.875	2.747
2022-08-14 14:15	4504504	8.281	-122.766	268.645	19.881	430.667	477.34	0.232	0.310	7.568	19.881	3.022
2022-08-14 14:30	4505404	8.281	-122.817	269.553	19.881	430.555	477.215	0.232	0.310	7.600	19.881	2.885
2022-08-14 14:45	4506304	8.277	-122.552	269.107	19.9	430.621	477.093	0.232	0.310	7.596	19.9	2.871
2022-08-14 15:00	4507204	8.281	-122.759	260.522	19.874	430.35	477.059	0.232	0.310	7.658	19.874	4.075
2022-08-14 15:15	4508104	8.283	-122.879	266.794	19.876	430.383	477.076	0.232	0.310	7.638	19.876	3.032
2022-08-14 15:30	4509004	8.288	-123.172	266.229	19.873	430.291	477.004	0.232	0.310	7.685	19.873	3.139
2022-08-14 15:45	4509904	8.289	-123.274	264.546	19.89	430.219	476.754	0.232	0.310	7.738	19.89	3.221
2022-08-14 16:00	4510804	8.285	-123.034	260.884	19.895	430.411	476.917	0.232	0.310	7.703	19.895	2.937
2022-08-14 16:15	4511704	8.280	-122.736	266.704	19.909	430.445	476.806	0.232	0.310	7.709	19.909	3.16
2022-08-14 16:30	4512604	8.280	-122.757	268.444	19.939	430.594	476.675	0.232	0.310	7.773	19.939	3.026
2022-08-14 16:45	4513504	8.284	-123	267.14	19.931	430.541	476.696	0.232	0.310	7.748	19.931	3.032
2022-08-14 17:00	4514404	8.283	-122.914	259.091	19.924	430.466	476.685	0.232	0.310	7.743	19.924	3.44
2022-08-14 17:15	4515304	8.288	-123.205	263.514	19.933	430.621	476.764	0.232	0.310	7.758	19.933	3.215
2022-08-14 17:30	4516204	8.292	-123.472	261.418	19.966	430.878	476.711	0.232	0.310	7.800	19.966	3.195
2022-08-14 17:45	4517104	8.295	-123.62	260.567	19.994	431.101	476.674	0.232	0.310	7.841	19.994	3.456
2022-08-14 18:00	4518004	8.292	-123.487	256.678	20.013	431.344	476.759	0.232	0.310	7.861	20.013	3.136
2022-08-14 18:15	4518904	8.294	-123.572	262.62	20.029	431.416	476.67	0.232	0.310	7.896	20.029	3.397
2022-08-14 18:30	4519804	8.292	-123.453	263.824	20.035	431.37	476.564	0.232	0.310	7.882	20.035	3.526
2022-08-14 18:45	4520704	8.286	-123.158	265.526	20.027	431.274	476.537	0.232	0.310	7.852	20.027	3.608
2022-08-14 19:00	4521604	8.284	-123.036	259.139	20.035	431.422	476.621	0.232	0.310	7.828	20.035	4.152
2022-08-14 19:15	4522504	8.288	-123.265	264.258	20.044	431.419	476.529	0.232	0.310	7.833	20.044	3.185
2022-08-14 19:30	4523404	8.287	-123.219	263.704	20.031	431.501	476.744	0.232	0.310	7.813	20.031	3.441
2022-08-14 19:45	4524304	8.279	-122.728	263.445	20.007	431.247	476.707	0.232	0.310	7.733	20.007	3.449
2022-08-14 20:00	4525204	8.264	-121.877	262.622	19.978	431.188	476.937	0.232	0.310	7.601	19.978	3.81
2022-08-14 20:15	4526104	8.271	-122.271	266.968	19.944	430.889	476.947	0.232	0.310	7.649	19.944	3.579
2022-08-14 20:30	4527004	8.270	-122.211	268.392	19.92	430.628	476.904	0.232	0.310	7.616	19.92	3.428
2022-08-14 20:45	4527904	8.274	-122.385	268.134	19.895	430.408	476.909	0.232	0.310	7.575	19.895	3.22
2022-08-14 21:00	4528804	8.263	-121.789	261.082	19.861	430.1	476.916	0.232	0.310	7.529	19.861	3.462
2022-08-14 21:15	4529704	8.257	-121.415	269.534	19.849	430.057	476.981	0.232	0.310	7.503	19.849	3.109
2022-08-14 21:30	4530604	8.257	-121.431	268.532	19.833	430.002	477.084	0.232	0.310	7.385	19.833	3.137
2022-08-14 21:45	4531504	8.250	-121.005	269.379	19.815	429.857	477.102	0.232	0.310	7.322	19.815	2.913
2022-08-14 22:00	4532404	8.235	-120.13	268.49	19.737	429.091	477.049	0.232	0.310	7.239	19.737	2.784
2022-08-14 22:15	4533304	8.230	-119.836	271.677	19.694	428.788	477.139	0.232	0.310	7.300	19.694	2.779
2022-08-14 22:30	4534204	8.220	-119.269	274.183	19.662	428.709	477.378	0.232	0.310	7.154	19.662	2.611
2022-08-14 22:45	4535104	8.214	-118.899	275.802	19.647	428.434	477.222	0.232	0.310	7.079	19.647	3.375

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-14 23:00	4536004	8.216	-118.983	266.849	19.58	427.795	477.193	0.232	0.310	7.109	19.58	2.98
2022-08-14 23:15	4536904	8.206	-118.392	274.762	19.568	427.617	477.124	0.232	0.310	6.906	19.568	2.801
2022-08-14 23:30	4537804	8.207	-118.43	271.77	19.486	426.924	477.175	0.232	0.310	7.031	19.486	2.88
2022-08-14 23:45	4538704	8.210	-118.616	271.467	19.469	426.662	477.062	0.232	0.310	6.941	19.469	2.957
2022-08-15 00:00	4539604	8.209	-118.506	264.346	19.44	426.787	477.498	0.232	0.310	6.858	19.44	4.298
2022-08-15 00:15	4540504	8.205	-118.325	273.215	19.414	426.493	477.436	0.232	0.310	6.915	19.414	2.752
2022-08-15 00:30	4541404	8.221	-119.193	275.499	19.373	425.828	477.104	0.232	0.310	6.894	19.373	2.56
2022-08-15 00:45	4542304	8.218	-118.992	277.311	19.335	425.483	477.109	0.232	0.310	7.011	19.335	2.494
2022-08-15 01:00	4543204	8.211	-118.57	271.904	19.299	425.392	477.371	0.232	0.310	6.915	19.299	2.786
2022-08-15 01:15	4544104	8.218	-118.983	276.059	19.271	425.161	477.404	0.232	0.310	6.869	19.271	2.521
2022-08-15 01:30	4545004	8.217	-118.897	275.919	19.218	424.317	476.994	0.232	0.310	6.959	19.218	2.967
2022-08-15 01:45	4545904	8.224	-119.295	275.034	19.188	423.91	476.849	0.232	0.310	7.057	19.188	3.172
2022-08-15 02:00	4546805	8.227	-119.414	267.793	19.142	423.573	476.935	0.232	0.310	7.143	19.142	3.244
2022-08-15 02:15	4547705	8.238	-120.056	274.748	19.128	423.297	476.772	0.232	0.310	7.200	19.128	3.656
2022-08-15 02:30	4548605	8.240	-120.142	276.303	19.126	423.485	477.005	0.232	0.310	7.159	19.126	2.826
2022-08-15 02:45	4549505	8.233	-119.755	278.482	19.108	423.333	477.014	0.232	0.310	7.055	19.108	2.496
2022-08-15 03:00	4550405	8.225	-119.264	272.462	19.065	422.861	476.926	0.232	0.310	7.027	19.065	3.101
2022-08-15 03:15	4551305	8.229	-119.514	278.503	19.046	422.491	476.701	0.232	0.310	7.182	19.046	3.164
2022-08-15 03:30	4552205	8.231	-119.627	276.973	19.018	422.295	476.765	0.232	0.310	7.127	19.018	3.25
2022-08-15 03:45	4553105	8.225	-119.276	277.902	19.017	422.506	477.021	0.232	0.310	6.987	19.017	2.843
2022-08-15 04:00	4554005	8.224	-119.219	269.083	18.971	422.181	477.12	0.232	0.310	6.820	18.971	3.179
2022-08-15 04:15	4554905	8.220	-118.961	277.43	18.947	421.803	476.946	0.232	0.310	6.902	18.947	2.74
2022-08-15 04:30	4555805	8.224	-119.169	278.553	18.919	421.625	477.026	0.232	0.310	6.965	18.919	2.493
2022-08-15 04:45	4556705	8.213	-118.556	280.532	18.898	421.427	477.02	0.232	0.310	6.774	18.898	2.64
2022-08-15 05:00	4557605	8.212	-118.487	277.561	18.85	420.942	476.97	0.232	0.310	6.984	18.85	2.94
2022-08-15 05:15	4558505	8.213	-118.546	281.607	18.862	421.247	477.191	0.232	0.310	6.890	18.862	2.632
2022-08-15 05:30	4559405	8.210	-118.365	281.064	18.86	421.307	477.274	0.232	0.310	6.648	18.86	2.348
2022-08-15 05:45	4560305	8.206	-118.134	278.606	18.812	420.704	477.096	0.232	0.310	6.571	18.812	2.801
2022-08-15 06:00	4561205	8.211	-118.365	270.087	18.707	419.68	477.018	0.232	0.310	6.830	18.707	3.496
2022-08-15 06:15	4562105	8.205	-117.996	278.711	18.688	419.566	477.087	0.232	0.310	6.923	18.688	2.799
2022-08-15 06:30	4563005	8.194	-117.388	280.844	18.681	419.601	477.196	0.232	0.310	6.680	18.681	3.807
2022-08-15 06:45	4563905	8.198	-117.583	281.843	18.666	419.406	477.128	0.232	0.310	6.684	18.666	2.235
2022-08-15 07:00	4564805	8.198	-117.614	273.36	18.638	419.158	477.139	0.232	0.310	6.702	18.638	3.071
2022-08-15 07:15	4565705	8.208	-118.151	280.132	18.632	419.086	477.117	0.232	0.310	6.818	18.632	2.492
2022-08-15 07:30	4566605	8.206	-118.027	278.238	18.617	418.995	477.172	0.232	0.310	6.698	18.617	2.453
2022-08-15 07:45	4567505	8.194	-117.357	276.994	18.594	418.781	477.168	0.232	0.310	6.565	18.594	2.457
2022-08-15 08:00	4568405	8.197	-117.486	267.553	18.553	418.398	477.158	0.232	0.310	***6.496***	18.553	2.685
2022-08-15 08:15	4569305	8.208	-118.103	272.705	18.506	417.706	476.849	0.232	0.310	6.922	18.506	3.451
2022-08-15 08:30	4570205	8.218	-118.649	277.025	18.488	417.604	476.919	0.232	0.310	6.993	18.488	3.318
2022-08-15 08:45	4571105	8.214	-118.415	278.787	18.484	417.688	477.064	0.232	0.310	6.857	18.484	2.906
2022-08-15 09:00	4572005	8.196	-117.404	276.126	18.479	417.387	476.773	0.232	0.310	6.865	18.479	3.185
2022-08-15 09:15	4572905	8.205	-117.893	279.175	18.46	417.224	476.783	0.232	0.310	6.869	18.46	3.205
2022-08-15 09:30	4573805	8.197	-117.469	276.326	18.449	417.149	476.804	0.232	0.310	6.859	18.449	3.212
2022-08-15 09:45	4574705	8.204	-117.831	274.419	18.449	417.128	476.787	0.232	0.310	6.868	18.449	3.156
2022-08-15 10:00	4575605	8.211	-118.253	265.645	18.444	417.196	476.919	0.232	0.310	6.942	18.444	3.8
2022-08-15 10:15	4576505	8.223	-118.918	272.266	18.468	417.42	476.918	0.232	0.310	6.909	18.468	3.139
2022-08-15 10:30	4577405	8.210	-118.177	276.324	18.479	417.474	476.868	0.232	0.310	6.997	18.479	3.205
2022-08-15 10:45	4578305	8.213	-118.353	276.117	18.494	417.773	477.051	0.232	0.310	6.959	18.494	3.381

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-15 11:00	4579205	8.204	-117.853	272.776	18.52	417.764	476.776	0.232	0.310	6.959	18.52	3.539
2022-08-15 11:15	4580105	8.229	-119.286	275.034	18.566	418.156	476.743	0.232	0.310	7.044	18.566	2.976
2022-08-15 11:30	4581005	8.235	-119.662	270.435	18.605	418.495	476.724	0.232	0.310	7.066	18.605	3.502
2022-08-15 11:45	4581905	8.235	-119.7	270.566	18.65	418.981	476.815	0.232	0.310	7.052	18.65	3.041
2022-08-15 12:00	4582805	8.228	-119.29	264.279	18.725	419.725	476.879	0.232	0.310	7.073	18.725	3.761
2022-08-15 12:15	4583705	8.226	-119.221	269.291	18.773	420.188	476.913	0.232	0.310	7.135	18.773	2.977
2022-08-15 12:30	4584605	8.235	-119.734	270.592	18.81	420.527	476.915	0.232	0.310	7.146	18.81	3.963
2022-08-15 12:45	4585505	8.235	-119.736	272.738	18.838	420.864	477.007	0.232	0.310	7.159	18.838	3.32
2022-08-15 13:00	4586405	8.224	-119.169	263.292	18.905	421.565	477.11	0.232	0.310	7.123	18.905	4.361
2022-08-15 13:15	4587305	8.241	-120.139	268.482	18.993	422.416	477.164	0.232	0.310	7.228	18.993	3.747
2022-08-15 13:30	4588205	8.245	-120.432	266.024	19.081	423.273	477.226	0.232	0.310	7.277	19.081	4.198
2022-08-15 13:45	4589105	8.256	-121.107	263.073	19.207	424.359	477.158	0.232	0.310	7.457	19.207	4.21
2022-08-15 14:00	4590005	8.254	-121.033	256.492	19.319	425.278	477.037	0.232	0.310	7.609	19.319	4.016
2022-08-15 14:15	4590905	8.260	-121.377	264.489	19.34	425.322	476.873	0.232	0.310	7.602	19.34	3.524
2022-08-15 14:30	4591805	8.265	-121.679	265.483	19.339	425.22	476.772	0.232	0.310	7.667	19.339	3.289
2022-08-15 14:45	4592705	8.284	-122.788	266.694	19.448	425.879	476.4	0.232	0.310	7.923	19.448	4.705
2022-08-15 15:00	4593605	8.269	-121.922	260.629	19.494	426.393	476.506	0.232	0.310	7.859	19.494	15.497
2022-08-15 15:15	4594505	8.265	-121.682	268.838	19.461	426.194	476.616	0.232	0.310	7.767	19.461	5.686
2022-08-15 15:30	4595405	8.281	-122.64	268.733	19.475	426.028	476.289	0.232	0.310	7.910	19.475	4.448
2022-08-15 15:45	4596305	8.287	-123.01	268.466	19.532	426.452	476.188	0.232	0.310	8.094	19.532	5.187
2022-08-15 16:00	4597205	8.291	-123.243	258.261	19.625	427.406	476.302	0.232	0.310	8.261	19.625	4.176
2022-08-15 16:15	4598105	8.291	-123.258	268.139	19.689	428.187	476.526	0.232	0.310	8.258	19.689	4.563
2022-08-15 16:30	4599005	8.313	-124.571	269.107	19.844	429.344	476.242	0.232	0.310	8.569	19.844	3.682
2022-08-15 16:45	4599905	8.334	-125.816	268.53	19.881	429.179	475.69	0.231	0.309	8.793	19.881	3.584
2022-08-15 17:00	4600805	8.335	-125.84	259.57	19.919	429.243	475.376	0.231	0.309	8.842	19.919	3.706
2022-08-15 17:15	4601705	8.331	-125.675	266.608	19.98	430.154	475.769	0.231	0.309	8.833	19.98	4.363
2022-08-15 17:30	4602605	8.317	-124.903	267.529	20.074	433.284	478.283	0.233	0.311	8.511	20.074	4.132
2022-08-15 17:45	4603505	8.313	-124.726	265.29	20.167	434.302	478.474	0.233	0.311	8.679	20.167	4.531
2022-08-15 18:00	4604405	8.281	-122.979	259.766	20.37	437.413	479.848	0.233	0.312	8.124	20.37	4.057
2022-08-15 18:15	4605305	8.280	-122.983	263.638	20.501	438.471	479.688	0.233	0.312	8.309	20.501	4.67
2022-08-15 18:30	4606205	8.274	-122.654	266.434	20.546	438.953	479.767	0.233	0.312	8.168	20.546	4.468
2022-08-15 18:45	4607105	8.275	-122.757	266.048	20.63	439.556	479.588	0.233	0.312	8.173	20.63	4.213
2022-08-15 19:00	4608005	8.272	-122.647	260.905	20.716	440.05	479.268	0.233	0.312	8.214	20.716	4.09
2022-08-15 19:15	4608905	8.285	-123.429	262.512	20.804	440.711	479.104	0.233	0.311	8.340	20.804	4.328
2022-08-15 19:30	4609805	8.279	-123.1	260.793	20.832	440.898	479.038	0.233	0.311	8.216	20.832	4.159
2022-08-15 19:45	4610705	8.276	-122.893	262.143	20.838	441.296	479.402	0.233	0.312	8.154	20.838	4.286
2022-08-15 20:00	4611605	8.264	-122.249	262.672	20.84	441.149	479.228	0.233	0.311	8.339	20.84	4.101
2022-08-15 20:15	4612505	8.280	-123.138	266.697	20.84	441.18	479.255	0.233	0.312	8.273	20.84	3.903
2022-08-15 20:30	4613405	8.275	-122.855	268.962	20.832	440.822	478.946	0.233	0.311	8.398	20.832	4.278
2022-08-15 20:45	4614305	8.290	-123.718	266.566	20.82	440.496	478.714	0.233	0.311	8.377	20.82	4.316
2022-08-15 21:00	4615205	8.280	-123.179	259.778	20.881	441.493	479.192	0.233	0.311	8.174	20.881	4.638
2022-08-15 21:15	4616105	8.270	-122.643	262.231	20.979	442.699	479.525	0.233	0.312	8.053	20.979	3.757
2022-08-15 21:30	4617005	8.246	-121.26	265.118	21.003	443.142	479.768	0.233	0.312	7.941	21.003	3.348
2022-08-15 21:45	4617905	8.241	-120.974	265.662	21.03	443.651	480.052	0.234	0.312	7.806	21.03	3.685
2022-08-15 22:00	4618805	8.234	-120.618	260.734	21.076	444.427	480.431	0.234	0.312	7.911	21.076	3.41
2022-08-15 22:15	4619705	8.249	-121.46	262.16	21.098	445.004	480.836	0.234	0.313	7.868	21.098	4.247
2022-08-15 22:30	4620605	8.258	-122.011	265.483	21.098	444.932	480.758	0.234	0.312	7.909	21.098	8.195
2022-08-15 22:45	4621505	8.276	-123.014	265.152	21.113	445.101	480.795	0.234	0.313	7.801	21.113	3.605

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-15 23:00	4622405	8.271	-122.759	251.292	21.108	444.858	480.582	0.234	0.312	7.801	21.108	3.595
2022-08-15 23:15	4623305	8.275	-122.931	263.433	21.076	444.321	480.323	0.234	0.312	7.874	21.076	3.532
2022-08-15 23:30	4624205	8.268	-122.533	263.461	21.045	444.126	480.421	0.234	0.312	7.743	21.045	3.562
2022-08-15 23:45	4625105	8.268	-122.519	263.342	20.972	443.39	480.346	0.234	0.312	7.788	20.972	3.444
2022-08-16 00:00	4626005	8.267	-122.44	258.54	20.955	443.569	480.71	0.234	0.312	7.734	20.955	3.778
2022-08-16 00:15	4626905	8.266	-122.387	265.357	20.959	443.672	480.779	0.234	0.313	7.682	20.959	3.431
2022-08-16 00:30	4627805	8.249	-121.441	268.513	20.946	443.66	480.895	0.234	0.313	7.577	20.946	3.922
2022-08-16 00:45	4628705	8.259	-121.987	268.375	20.936	443.573	480.904	0.234	0.313	7.436	20.936	2.88
2022-08-16 01:00	4629605	8.241	-120.924	263.573	20.888	443.085	480.848	0.234	0.313	7.390	20.888	3.095
2022-08-16 01:15	4630505	8.265	-122.311	266.732	20.882	443.037	480.857	0.234	0.313	7.431	20.882	3.113
2022-08-16 01:30	4631405	8.244	-121.088	267.393	20.861	442.951	480.977	0.234	0.313	7.244	20.861	2.862
2022-08-16 01:45	4632305	8.241	-120.89	267.822	20.834	442.665	480.933	0.234	0.313	7.144	20.834	2.956
2022-08-16 02:00	4633205	8.227	-120.108	261.494	20.782	442.441	481.21	0.234	0.313	7.157	20.782	3.04
2022-08-16 02:15	4634105	8.207	-118.961	268.676	20.748	441.631	480.664	0.234	0.312	7.107	20.748	2.925
2022-08-16 02:30	4635005	8.210	-119.135	270.406	20.728	442.054	481.325	0.234	0.313	7.010	20.728	2.957
2022-08-16 02:45	4635905	8.187	-117.81	272.826	20.678	441.534	481.265	0.234	0.313	6.874	20.678	2.968
2022-08-16 03:00	4636805	8.187	-117.798	264.038	20.662	441.468	481.351	0.234	0.313	6.890	20.662	2.867
2022-08-16 03:15	4637705	8.202	-118.611	273.244	20.636	441.31	481.44	0.234	0.313	6.682	20.636	3.136
2022-08-16 03:30	4638605	8.203	-118.68	272.64	20.592	441.08	481.633	0.234	0.313	6.555	20.592	2.758
2022-08-16 03:45	4639505	8.187	-117.724	272.333	20.555	440.689	481.577	0.234	0.313	6.576	20.555	3.075
2022-08-16 04:00	4640405	8.152	-115.712	263.824	20.455	440.09	481.93	0.235	0.313	***6.427***	20.455	2.803
2022-08-16 04:15	4641305	8.158	-116.062	273.129	20.431	439.62	481.654	0.234	0.313	6.510	20.431	2.736
2022-08-16 04:30	4642205	8.185	-117.548	274.753	20.388	439.013	481.416	0.234	0.313	***6.468***	20.388	2.578
2022-08-16 04:45	4643105	8.154	-115.802	276.689	20.34	438.764	481.628	0.234	0.313	***6.478***	20.34	2.785
2022-08-16 05:00	4644005	8.159	-116.031	268.649	20.304	438.551	481.76	0.234	0.313	***6.316***	20.304	3.002
2022-08-16 05:15	4644905	8.153	-115.707	276.379	20.289	438.247	481.583	0.234	0.313	***6.273***	20.289	2.809
2022-08-16 05:30	4645805	8.148	-115.392	275.246	20.258	438.088	481.717	0.234	0.313	***6.243***	20.258	2.691
2022-08-16 05:45	4646705	8.164	-116.272	275.175	20.207	437.775	481.888	0.234	0.313	***6.110***	20.207	2.64
2022-08-16 06:00	4647605	8.162	-116.143	271.513	20.131	436.801	481.591	0.234	0.313	***6.215***	20.131	2.786
2022-08-16 06:15	4648505	8.165	-116.296	276.686	20.096	436.178	481.255	0.234	0.313	***6.367***	20.096	2.691
2022-08-16 06:30	4649405	8.168	-116.436	276.932	20.058	436.052	481.504	0.234	0.313	***6.438***	20.058	2.793
2022-08-16 06:45	4650305	8.175	-116.82	278.403	19.989	435.083	481.128	0.234	0.313	***6.385***	19.989	2.655
2022-08-16 07:00	4651205	8.164	-116.177	267.262	19.95	435.147	481.598	0.234	0.313	***6.280***	19.95	2.776
2022-08-16 07:15	4652105	8.158	-115.852	277.178	19.914	434.709	481.477	0.234	0.313	***6.256***	19.914	2.793
2022-08-16 07:30	4653005	8.146	-115.161	275.809	19.856	434.16	481.466	0.234	0.313	***6.220***	19.856	2.838
2022-08-16 07:45	4653905	8.134	-114.424	275.287	19.82	433.98	481.628	0.234	0.313	***6.102***	19.82	2.684
2022-08-16 08:00	4654805	8.131	-114.257	270.766	19.791	433.708	481.622	0.234	0.313	***6.122***	19.791	2.6
2022-08-16 08:15	4655705	8.139	-114.734	275.618	19.795	434.45	482.406	0.235	0.314	***5.936***	19.795	2.433
2022-08-16 08:30	4656605	8.114	-113.28	278.072	19.784	433.376	481.333	0.234	0.313	***6.028***	19.784	2.596
2022-08-16 08:45	4657505	8.148	-115.244	277.166	19.786	433.505	481.451	0.234	0.313	***6.081***	19.786	2.56
2022-08-16 09:00	4658405	8.150	-115.361	272.137	19.786	433.311	481.237	0.234	0.313	***6.326***	19.786	2.372
2022-08-16 09:15	4659305	8.145	-115.047	277.468	19.797	433.385	481.208	0.234	0.313	***6.100***	19.797	2.462
2022-08-16 09:30	4660205	8.196	-117.946	272.967	19.796	432.961	480.748	0.234	0.312	6.646	19.796	2.922
2022-08-16 09:45	4661105	8.205	-118.446	270.712	19.809	433	480.657	0.234	0.312	6.784	19.809	2.726
2022-08-16 10:00	4662005	8.181	-117.092	265.581	19.771	432.612	480.615	0.234	0.312	6.719	19.771	2.543
2022-08-16 10:15	4662905	8.191	-117.607	274.986	19.668	430.911	479.771	0.233	0.312	7.031	19.668	3.096
2022-08-16 10:30	4663805	8.198	-118.01	279.042	19.635	430.744	479.922	0.233	0.312	7.010	19.635	3.158
2022-08-16 10:45	4664705	8.198	-117.977	280.542	19.59	430.125	479.688	0.233	0.312	6.966	19.59	3.141

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-16 11:00	4665605	8.187	-117.321	273.673	19.587	430.229	479.839	0.233	0.312	6.995	19.587	3.324
2022-08-16 11:15	4666505	8.195	-117.826	281.688	19.604	430.506	479.977	0.233	0.312	6.871	19.604	3.522
2022-08-16 11:30	4667405	8.199	-118.029	279.392	19.608	430.515	479.948	0.233	0.312	6.782	19.608	3.181
2022-08-16 11:45	4668305	8.196	-117.879	277.545	19.612	430.158	479.508	0.233	0.312	6.976	19.612	3.237
2022-08-16 12:00	4669205	8.194	-117.762	268.225	19.618	430.435	479.749	0.233	0.312	7.062	19.618	3.288
2022-08-16 12:15	4670105	8.224	-119.469	275.59	19.643	430.72	479.814	0.233	0.312	7.185	19.643	3.453
2022-08-16 12:30	4671005	8.234	-120.034	277.025	19.666	431.047	479.947	0.233	0.312	7.235	19.666	3.43
2022-08-16 12:45	4671905	8.233	-119.984	276.882	19.674	431.411	480.264	0.234	0.312	7.248	19.674	3.819
2022-08-16 13:00	4672805	8.219	-119.216	268.211	19.686	431.419	480.155	0.234	0.312	7.369	19.686	4.213
2022-08-16 13:15	4673705	8.234	-120.075	275.995	19.702	431.652	480.245	0.234	0.312	7.349	19.702	3.727
2022-08-16 13:30	4674605	8.247	-120.8	273.644	19.718	432.02	480.498	0.234	0.312	7.342	19.718	3.884
2022-08-16 13:45	4675505	8.255	-121.245	272.149	19.742	432.044	480.282	0.234	0.312	7.468	19.742	3.668
2022-08-16 14:00	4676405	8.251	-121.031	260.724	19.795	432.465	480.201	0.234	0.312	7.669	19.795	3.234
2022-08-16 14:15	4677305	8.267	-122.006	270.328	19.853	432.99	480.192	0.234	0.312	7.738	19.853	3.666
2022-08-16 14:30	4678205	8.275	-122.471	271.084	19.906	433.913	480.683	0.234	0.312	7.739	19.906	3.864
2022-08-16 14:45	4679105	8.279	-122.721	271	19.998	434.932	480.869	0.234	0.313	7.818	19.998	4.221
2022-08-16 15:00	4680005	8.274	-122.473	263.716	20.079	434.909	480.027	0.234	0.312	7.922	20.079	3.654
2022-08-16 15:15	4680905	8.292	-123.541	268.909	20.177	435.515	479.705	0.233	0.312	8.135	20.177	3.793
2022-08-16 15:30	4681805	8.315	-124.867	266.83	20.227	435.244	478.9	0.233	0.311	8.516	20.227	3.721
2022-08-16 15:45	4682705	8.298	-123.897	266.098	20.229	435.982	479.698	0.233	0.312	8.315	20.229	3.662
2022-08-16 16:00	4683605	8.289	-123.389	254.18	20.253	436.702	480.246	0.234	0.312	8.160	20.253	3.917
2022-08-16 16:15	4684505	8.285	-123.222	266.463	20.341	437.263	479.976	0.234	0.312	8.288	20.341	3.721
2022-08-16 16:30	4685405	8.333	-125.983	265.137	20.514	437.994	479.037	0.233	0.311	8.826	20.514	3.481
2022-08-16 16:45	4686305	8.328	-125.654	268.535	20.397	437.528	479.7	0.233	0.312	8.700	20.397	3.47
2022-08-16 17:00	4687205	8.313	-124.817	261.177	20.451	438.75	480.499	0.234	0.312	8.493	20.451	4.11
2022-08-16 17:15	4688105	8.331	-125.873	269.102	20.508	439.097	480.308	0.234	0.312	8.604	20.508	3.384
2022-08-16 17:30	4689005	8.349	-126.917	265.724	20.56	439.269	479.974	0.234	0.312	8.750	20.56	3.374
2022-08-16 17:45	4689905	8.332	-125.961	266.091	20.555	439.71	480.507	0.234	0.312	8.514	20.555	3.713
2022-08-16 18:00	4690805	8.335	-126.193	254.308	20.665	440.662	480.444	0.234	0.312	9.013	20.665	3.266
2022-08-16 18:15	4691705	8.361	-127.64	264.582	20.646	440.149	480.075	0.234	0.312	8.874	20.646	3.293
2022-08-16 18:30	4692605	8.327	-125.723	269.076	20.642	440.7	480.712	0.234	0.312	8.982	20.642	3.396
2022-08-16 18:45	4693505	8.339	-126.398	269.233	20.647	440.827	480.804	0.234	0.313	8.767	20.647	3.566
2022-08-16 19:00	4694405	8.339	-126.357	263.879	20.582	440.53	481.133	0.234	0.313	8.743	20.582	3.514
2022-08-16 19:15	4695305	8.339	-126.345	270.428	20.559	440.48	481.309	0.234	0.313	8.587	20.559	3.526
2022-08-16 19:30	4696205	8.351	-127.044	270.046	20.563	440.227	480.991	0.234	0.313	8.825	20.563	3.28
2022-08-16 19:45	4697105	8.344	-126.626	269.939	20.559	440.052	480.84	0.234	0.313	8.800	20.559	3.069
2022-08-16 20:00	4698005	8.331	-125.883	256.852	20.547	440.401	481.34	0.234	0.313	8.570	20.547	3.304
2022-08-16 20:15	4698905	8.315	-125.017	268.938	20.565	440.878	481.676	0.234	0.313	8.508	20.565	3.29
2022-08-16 20:30	4699805	8.316	-125.039	271.274	20.562	440.641	481.446	0.234	0.313	8.483	20.562	2.948
2022-08-16 20:45	4700705	8.295	-123.894	272.936	20.566	441.025	481.832	0.234	0.313	8.244	20.566	2.63
2022-08-16 21:00	4701605	8.280	-123.007	265.109	20.544	440.473	481.453	0.234	0.313	7.998	20.544	3.067
2022-08-16 21:15	4702505	8.271	-122.464	272.478	20.498	439.492	480.835	0.234	0.313	8.262	20.498	4.817
2022-08-16 21:30	4703405	8.276	-122.745	271.742	20.508	439.998	481.296	0.234	0.313	8.096	20.508	2.903
2022-08-16 21:45	4704305	8.279	-122.941	272.001	20.459	439.518	481.263	0.234	0.313	8.069	20.459	3.135
2022-08-16 22:00	4705205	8.289	-123.479	264.353	20.416	439.235	481.383	0.234	0.313	8.120	20.416	3.291
2022-08-16 22:15	4706105	8.275	-122.671	270.688	20.406	439.456	481.728	0.234	0.313	8.126	20.406	3.126
2022-08-16 22:30	4707005	8.285	-123.217	271.868	20.391	439.168	481.558	0.234	0.313	8.255	20.391	3.201
2022-08-16 22:45	4707905	8.287	-123.351	270.945	20.411	439.836	482.089	0.235	0.313	8.157	20.411	3.472

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-16 23:00	4708805	8.283	-123.11	259.704	20.421	439.467	481.59	0.234	0.313	7.976	20.421	5.363
2022-08-16 23:15	4709705	8.284	-123.184	268.013	20.42	439.46	481.59	0.234	0.313	7.867	20.42	2.922
2022-08-16 23:30	4710605	8.289	-123.441	266.234	20.411	439.505	481.725	0.234	0.313	7.874	20.411	2.695
2022-08-16 23:45	4711505	8.262	-121.896	266.06	20.372	439.133	481.712	0.234	0.313	7.691	20.372	2.897
2022-08-17 00:00	4712405	8.269	-122.275	253.059	20.32	438.913	482	0.235	0.313	7.639	20.32	2.815
2022-08-17 00:15	4713305	8.254	-121.453	266.353	20.295	438.64	481.949	0.235	0.313	7.587	20.295	2.776
2022-08-17 00:30	4714205	8.239	-120.533	269.1	20.241	438.046	481.842	0.234	0.313	7.731	20.241	2.791
2022-08-17 00:45	4715105	8.244	-120.854	269.913	20.204	437.799	481.944	0.235	0.313	7.559	20.204	2.928
2022-08-17 01:00	4716005	8.269	-122.206	262.539	20.159	437.141	481.676	0.234	0.313	7.700	20.159	2.939
2022-08-17 01:15	4716905	8.252	-121.229	270.297	20.137	436.943	481.679	0.234	0.313	7.653	20.137	2.968
2022-08-17 01:30	4717805	8.256	-121.486	269.853	20.119	436.758	481.657	0.234	0.313	7.625	20.119	2.92
2022-08-17 01:45	4718705	8.258	-121.582	269.05	20.097	436.711	481.835	0.234	0.313	7.537	20.097	2.692
2022-08-17 02:00	4719605	8.271	-122.306	259.828	20.029	436.039	481.786	0.234	0.313	7.520	20.029	3.414
2022-08-17 02:15	4720505	8.263	-121.822	269.253	20.024	435.95	481.734	0.234	0.313	7.593	20.024	2.92
2022-08-17 02:30	4721405	8.247	-120.888	270.981	19.995	435.501	481.538	0.234	0.313	7.385	19.995	2.582
2022-08-17 02:45	4722305	8.227	-119.791	272.271	19.958	435.201	481.578	0.234	0.313	7.353	19.958	2.572
2022-08-17 03:00	4723205	8.253	-121.21	260.858	19.905	435.182	482.097	0.235	0.313	7.294	19.905	2.75
2022-08-17 03:15	4724105	8.235	-120.165	271.267	19.89	434.877	481.91	0.234	0.313	7.109	19.89	2.73
2022-08-17 03:30	4725005	8.240	-120.449	270.683	19.854	434.707	482.093	0.235	0.313	7.223	19.854	2.429
2022-08-17 03:45	4725905	8.240	-120.463	270.583	19.815	434.366	482.116	0.235	0.313	7.177	19.815	2.507
2022-08-17 04:00	4726805	8.238	-120.285	267.622	19.746	433.745	482.13	0.235	0.313	7.159	19.746	2.563
2022-08-17 04:15	4727705	8.219	-119.221	273.153	19.706	432.966	481.67	0.234	0.313	7.216	19.706	2.416
2022-08-17 04:30	4728605	8.226	-119.596	274.734	19.662	432.754	481.887	0.234	0.313	7.101	19.662	2.513
2022-08-17 04:45	4729505	8.212	-118.768	275.685	19.636	432.543	481.918	0.234	0.313	7.055	19.636	2.501
2022-08-17 05:00	4730405	8.232	-119.886	268.78	19.618	432.607	482.176	0.235	0.313	7.012	19.618	2.371
2022-08-17 05:15	4731305	8.224	-119.429	275.962	19.586	432.324	482.189	0.235	0.313	6.903	19.586	2.332
2022-08-17 05:30	4732205	8.230	-119.727	273.797	19.519	431.73	482.208	0.235	0.313	6.974	19.519	2.814
2022-08-17 05:45	4733105	8.213	-118.747	274.75	19.47	431.165	482.087	0.235	0.313	6.846	19.47	2.393
2022-08-17 06:00	4734005	8.238	-120.151	263.23	19.337	429.732	481.854	0.234	0.313	7.265	19.337	2.937
2022-08-17 06:15	4734905	8.225	-119.379	273.809	19.316	429.466	481.764	0.234	0.313	7.298	19.316	2.695
2022-08-17 06:30	4735805	8.206	-118.318	276.441	19.29	429.304	481.86	0.234	0.313	7.245	19.29	2.447
2022-08-17 06:45	4736705	8.213	-118.656	276.698	19.244	428.688	481.639	0.234	0.313	7.216	19.244	2.727
2022-08-17 07:00	4737605	8.229	-119.569	268.995	19.197	428.356	481.756	0.234	0.313	7.193	19.197	2.84
2022-08-17 07:15	4738505	8.221	-119.092	276.319	19.173	427.825	481.399	0.234	0.313	7.176	19.173	2.877
2022-08-17 07:30	4739405	8.202	-118.02	276.174	19.155	427.77	481.528	0.234	0.313	7.087	19.155	2.772
2022-08-17 07:45	4740305	8.208	-118.356	274.755	19.137	427.661	481.592	0.234	0.313	7.161	19.137	2.441
2022-08-17 08:00	4741205	8.227	-119.4	269.21	19.085	427.146	481.545	0.234	0.313	7.193	19.085	2.457
2022-08-17 08:15	4742105	8.203	-118.041	275.773	19.058	426.944	481.599	0.234	0.313	7.134	19.058	2.552
2022-08-17 08:30	4743005	8.200	-117.85	278.048	19.036	426.682	481.534	0.234	0.313	7.238	19.036	3.167
2022-08-17 08:45	4743905	8.220	-118.98	278.134	19.025	426.672	481.635	0.234	0.313	7.334	19.025	2.681
2022-08-17 09:00	4744805	8.232	-119.669	272.965	19.017	426.426	481.445	0.234	0.313	7.247	19.017	3.038
2022-08-17 09:15	4745705	8.219	-118.945	277.058	19.021	426.505	481.492	0.234	0.313	7.162	19.021	2.48
2022-08-17 09:30	4746605	8.237	-119.934	273.101	19.013	426.305	481.345	0.234	0.313	7.211	19.013	2.725
2022-08-17 09:45	4747505	8.233	-119.703	270.528	19.013	426.187	481.216	0.234	0.313	7.271	19.013	3.168
2022-08-17 10:00	4748405	8.239	-120.034	260.359	19.003	426.368	481.526	0.234	0.313	7.198	19.003	3.112
2022-08-17 10:15	4749305	8.229	-119.488	270.223	19.015	426.885	481.981	0.234	0.313	6.980	19.015	2.444
2022-08-17 10:30	4750205	8.216	-118.747	272.655	19.006	426.695	481.863	0.234	0.313	7.021	19.006	2.678
2022-08-17 10:45	4751105	8.224	-119.231	273.48	19.015	427.03	482.149	0.235	0.313	6.854	19.015	2.225

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-17 11:00	4752005	8.202	-117.981	266.394	19.004	426.349	481.495	0.234	0.313	6.709	19.004	2.57
2022-08-17 11:15	4752905	8.209	-118.361	271.444	19.02	426.762	481.788	0.234	0.313	6.808	19.02	2.269
2022-08-17 11:30	4753805	8.194	-117.548	269.858	19.041	427.01	481.855	0.234	0.313	6.647	19.041	2.241
2022-08-17 11:45	4754705	8.180	-116.732	269.613	19.077	427.546	482.088	0.234	0.313	6.552	19.077	2.151
2022-08-17 12:00	4755605	8.172	-116.339	263.676	19.15	428.385	482.268	0.235	0.313	***6.411***	19.15	2.282
2022-08-17 12:15	4756505	8.178	-116.689	268.468	19.236	429.295	482.404	0.235	0.314	6.982	19.236	2.53
2022-08-17 12:30	4757405	8.191	-117.443	270.802	19.301	429.829	482.332	0.235	0.314	7.079	19.301	5.475
2022-08-17 12:45	4758305	8.207	-118.361	272.447	19.359	430.363	482.335	0.235	0.314	7.037	19.359	2.453
2022-08-17 13:00	4759205	8.202	-118.144	267.026	19.437	430.702	481.91	0.234	0.313	6.962	19.437	3.899
2022-08-17 13:15	4760105	8.194	-117.743	274.119	19.559	431.804	481.885	0.234	0.313	6.996	19.559	2.71
2022-08-17 13:30	4761005	8.196	-117.927	273.539	19.696	433.16	481.988	0.234	0.313	7.204	19.696	3.145
2022-08-17 13:45	4761905	8.226	-119.634	267.812	19.831	434.136	481.695	0.234	0.313	7.430	19.831	2.939
2022-08-17 14:00	4762805	8.246	-120.785	267.021	19.885	434.87	481.955	0.234	0.313	7.408	19.885	2.762
2022-08-17 14:15	4763705	8.236	-120.246	272.881	19.945	435.979	482.57	0.235	0.314	7.222	19.945	2.852
2022-08-17 14:30	4764605	8.207	-118.635	273.434	20.021	436.612	482.5	0.235	0.314	7.342	20.021	2.667
2022-08-17 14:45	4765505	8.241	-120.609	273.291	20.087	436.83	482.063	0.235	0.313	7.382	20.087	2.532
2022-08-17 15:00	4766405	8.224	-119.66	269.391	20.164	437.282	481.783	0.234	0.313	7.355	20.164	4.181
2022-08-17 15:15	4767305	8.246	-120.945	274.269	20.238	438.373	482.235	0.235	0.313	7.411	20.238	2.669
2022-08-17 15:30	4768205	8.277	-122.714	271.403	20.27	438.088	481.598	0.234	0.313	7.460	20.27	2.655
2022-08-17 15:45	4769105	8.269	-122.271	269.133	20.264	437.91	481.462	0.234	0.313	8.037	20.264	2.89
2022-08-17 16:00	4770005	8.270	-122.335	265.187	20.251	437.795	481.47	0.234	0.313	7.778	20.251	2.682
2022-08-17 16:15	4770905	8.273	-122.471	270.776	20.267	437.781	481.285	0.234	0.313	7.686	20.267	2.52
2022-08-17 16:30	4771805	8.274	-122.55	272.49	20.294	437.986	481.24	0.234	0.313	7.784	20.294	2.639
2022-08-17 16:45	4772705	8.276	-122.707	273.082	20.322	438.203	481.198	0.234	0.313	7.763	20.322	2.554
2022-08-17 17:00	4773605	8.284	-123.158	258.624	20.406	438.952	481.169	0.234	0.313	8.452	20.406	2.683
2022-08-17 17:15	4774505	8.300	-124.085	271.391	20.449	438.836	480.613	0.234	0.312	8.386	20.449	2.73
2022-08-17 17:30	4775405	8.312	-124.805	270.43	20.508	439.031	480.236	0.234	0.312	8.636	20.508	2.651
2022-08-17 17:45	4776305	8.319	-125.229	268.95	20.565	439.054	479.692	0.233	0.312	8.626	20.565	2.57
2022-08-17 18:00	4777205	8.318	-125.196	253.104	20.609	439.304	479.517	0.233	0.312	9.224	20.609	2.741
2022-08-17 18:15	4778105	8.289	-123.558	266.606	20.64	439.485	479.407	0.233	0.312	8.804	20.64	2.329
2022-08-17 18:30	4779005	8.334	-126.138	268.456	20.668	438.86	478.448	0.233	0.311	8.587	20.668	2.309
2022-08-17 18:45	4779905	8.316	-125.153	268.27	20.722	440.337	479.521	0.233	0.312	8.999	20.722	2.726
2022-08-17 19:00	4780805	8.287	-123.518	267.116	20.787	444.304	483.187	0.235	0.314	8.357	20.787	2.934
2022-08-17 19:15	4781705	8.259	-121.953	273.244	20.872	446.195	484.388	0.236	0.315	8.405	20.872	3.321
2022-08-17 19:30	4782605	8.237	-120.764	272.845	20.997	446.853	483.842	0.235	0.314	8.082	20.997	3.208
2022-08-17 19:45	4783505	8.247	-121.348	271	21.103	446.635	482.553	0.235	0.314	8.267	21.103	2.666
2022-08-17 20:00	4784405	8.254	-121.81	258.033	21.156	447.688	483.162	0.235	0.314	8.148	21.156	2.965
2022-08-17 20:15	4785305	8.248	-121.462	266.561	21.18	448.294	483.576	0.235	0.314	8.117	21.18	2.56
2022-08-17 20:30	4786205	8.240	-121.012	267.662	21.188	448.577	483.807	0.235	0.314	8.017	21.188	2.397
2022-08-17 20:45	4787105	8.223	-120.046	268.885	21.187	448.302	483.52	0.235	0.314	7.899	21.187	2.411
2022-08-17 21:00	4788005	8.233	-120.618	265.347	21.187	447.481	482.633	0.235	0.314	7.897	21.187	2.432
2022-08-17 21:15	4788905	8.276	-123.055	270.893	21.188	447.083	482.189	0.235	0.313	8.425	21.188	2.563
2022-08-17 21:30	4789805	8.266	-122.466	268.37	21.184	446.696	481.811	0.234	0.313	8.332	21.184	2.398
2022-08-17 21:45	4790705	8.264	-122.39	267.882	21.188	446.879	481.972	0.235	0.313	8.192	21.188	2.385
2022-08-17 22:00	4791605	8.231	-120.499	263.53	21.175	446.973	482.204	0.235	0.313	8.068	21.175	2.307
2022-08-17 22:15	4792505	8.238	-120.895	269.2	21.193	447.669	482.773	0.235	0.314	8.080	21.193	2.447
2022-08-17 22:30	4793405	8.237	-120.854	271.241	21.202	448.107	483.151	0.235	0.314	7.935	21.202	2.321
2022-08-17 22:45	4794305	8.205	-119.019	271.515	21.196	448.304	483.424	0.235	0.314	7.702	21.196	2.283

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-17 23:00	4795205	8.231	-120.497	264.699	21.154	447.759	483.257	0.235	0.314	7.552	21.154	2.456
2022-08-17 23:15	4796105	8.238	-120.888	269.939	21.143	448.044	483.678	0.235	0.314	7.645	21.143	2.704
2022-08-17 23:30	4797005	8.271	-122.705	269.806	21.065	447.652	484.034	0.236	0.315	7.650	21.065	2.749
2022-08-17 23:45	4797905	8.251	-121.589	268.17	21.06	447.119	483.509	0.235	0.314	7.720	21.06	2.604
2022-08-18 00:00	4798805	8.237	-120.761	259.995	20.964	446.054	483.308	0.235	0.314	7.568	20.964	2.478
2022-08-18 00:15	4799705	8.202	-118.728	268.606	20.911	445.559	483.304	0.235	0.314	7.636	20.911	2.691
2022-08-18 00:30	4800605	8.230	-120.277	269.253	20.856	445.251	483.524	0.235	0.314	7.533	20.856	2.47
2022-08-18 00:45	4801505	8.214	-119.371	271.725	20.747	443.809	483.049	0.235	0.314	7.579	20.747	2.518
2022-08-18 01:00	4802405	8.240	-120.828	266.213	20.726	443.92	483.384	0.235	0.314	7.487	20.726	2.751
2022-08-18 01:15	4803305	8.198	-118.423	272.326	20.703	443.9	483.593	0.235	0.314	7.472	20.703	2.581
2022-08-18 01:30	4804205	8.195	-118.227	271.67	20.587	443.145	483.938	0.236	0.315	7.290	20.587	2.672
2022-08-18 01:45	4805105	8.211	-119.119	271.072	20.575	442.75	483.626	0.235	0.314	7.328	20.575	2.533
2022-08-18 02:00	4806005	8.197	-118.248	258.941	20.483	442.191	483.943	0.236	0.315	7.145	20.483	2.565
2022-08-18 02:15	4806905	8.166	-116.475	270.592	20.441	441.681	483.813	0.235	0.314	7.036	20.441	2.577
2022-08-18 02:30	4807805	8.151	-115.633	272.514	20.383	441.362	484.051	0.236	0.315	6.927	20.383	2.455
2022-08-18 02:45	4808705	8.161	-116.169	273.051	20.359	441.112	484.018	0.236	0.315	6.902	20.359	2.278
2022-08-18 03:00	4809605	8.161	-116.148	270.581	20.273	440.414	484.126	0.236	0.315	6.902	20.273	2.599
2022-08-18 03:15	4810505	8.163	-116.229	273.449	20.212	439.897	484.175	0.236	0.315	6.856	20.212	3.29
2022-08-18 03:30	4811405	8.180	-117.188	271.355	20.176	439.3	483.885	0.235	0.315	6.854	20.176	2.51
2022-08-18 03:45	4812305	8.174	-116.849	270.867	20.118	438.858	483.987	0.236	0.315	6.883	20.118	2.741
2022-08-18 04:00	4813205	8.173	-116.704	261.037	20.013	437.833	483.927	0.235	0.315	6.852	20.013	2.627
2022-08-18 04:15	4814105	8.173	-116.699	272.438	19.936	436.637	483.386	0.235	0.314	6.810	19.936	2.548
2022-08-18 04:30	4815005	8.164	-116.153	273.904	19.92	436.701	483.627	0.235	0.314	6.928	19.92	2.561
2022-08-18 04:45	4815905	8.165	-116.224	275.368	19.857	436.158	483.671	0.235	0.314	6.834	19.857	2.532
2022-08-18 05:00	4816805	8.194	-117.838	264.181	19.775	435.371	483.633	0.235	0.314	6.837	19.775	3.301
2022-08-18 05:15	4817705	8.195	-117.86	273.902	19.792	435.57	483.683	0.235	0.314	6.671	19.792	2.497
2022-08-18 05:30	4818605	8.175	-116.744	273.225	19.728	434.959	483.662	0.235	0.314	6.760	19.728	2.591
2022-08-18 05:45	4819505	8.161	-115.929	274.44	19.681	434.599	483.74	0.235	0.314	6.649	19.681	3.106
2022-08-18 06:00	4820405	8.179	-116.88	266.973	19.586	433.817	483.855	0.235	0.315	6.792	19.586	2.482
2022-08-18 06:15	4821305	8.170	-116.363	273.928	19.532	432.683	483.139	0.235	0.314	6.712	19.532	2.524
2022-08-18 06:30	4822205	8.181	-116.942	276.398	19.441	431.745	483.035	0.235	0.314	6.821	19.441	2.545
2022-08-18 06:45	4823105	8.168	-116.193	276.639	19.351	431.193	483.342	0.235	0.314	6.738	19.351	2.413
2022-08-18 07:00	4824005	8.167	-116.088	270.59	19.269	430.485	483.402	0.235	0.314	6.730	19.269	4.082
2022-08-18 07:15	4824905	8.164	-115.898	277.909	19.272	430.304	483.169	0.235	0.314	6.757	19.272	4.662
2022-08-18 07:30	4825805	8.164	-115.91	276.131	19.239	429.869	483.02	0.235	0.314	6.811	19.239	2.598
2022-08-18 07:45	4826705	8.162	-115.764	276.593	19.208	429.373	482.78	0.235	0.314	6.934	19.208	4.122
2022-08-18 08:00	4827605	8.199	-117.872	272.149	19.163	429.06	482.899	0.235	0.314	6.993	19.163	2.554
2022-08-18 08:15	4828505	8.179	-116.72	275.633	19.141	428.902	482.943	0.235	0.314	7.244	19.141	2.654
2022-08-18 08:30	4829405	8.184	-117.023	276.951	19.128	428.794	482.962	0.235	0.314	7.271	19.128	2.587
2022-08-18 08:45	4830305	8.215	-118.732	276.844	19.128	428.859	483.039	0.235	0.314	7.416	19.128	2.822
2022-08-18 09:00	4831205	8.233	-119.772	268.823	19.119	428.324	482.522	0.235	0.314	7.375	19.119	3.164
2022-08-18 09:15	4832105	8.224	-119.226	275.499	19.12	428.224	482.404	0.235	0.314	7.331	19.12	2.554
2022-08-18 09:30	4833005	8.231	-119.631	273.73	19.126	428.664	482.833	0.235	0.314	7.108	19.126	2.371
2022-08-18 09:45	4833905	8.203	-118.043	273.644	19.122	428.423	482.604	0.235	0.314	7.076	19.122	2.752
2022-08-18 10:00	4834805	8.216	-118.802	268.964	19.102	428.385	482.768	0.235	0.314	7.308	19.102	3.207
2022-08-18 10:15	4835705	8.223	-119.188	272.545	19.109	428.644	482.989	0.235	0.314	7.354	19.109	2.625
2022-08-18 10:30	4836605	8.222	-119.164	273.346	19.116	428.698	482.98	0.235	0.314	7.301	19.116	2.553
2022-08-18 10:45	4837505	8.213	-118.616	273.318	19.126	429.004	483.216	0.235	0.314	7.097	19.126	2.084

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-18 11:00	4838405	8.197	-117.712	267.572	19.133	428.916	483.049	0.235	0.314	6.872	19.133	2.175
2022-08-18 11:15	4839305	8.188	-117.238	273.663	19.15	429.19	483.178	0.235	0.314	6.747	19.15	2.102
2022-08-18 11:30	4840205	8.172	-116.365	271.789	19.179	429.648	483.395	0.235	0.314	6.565	19.179	2.08
2022-08-18 11:45	4841105	8.161	-115.75	271.348	19.232	430.211	483.475	0.235	0.314	***6.474***	19.232	2.064
2022-08-18 12:00	4842005	8.157	-115.55	265.774	19.297	430.949	483.629	0.235	0.314	6.596	19.297	2.292
2022-08-18 12:15	4842905	8.169	-116.251	270.263	19.368	431.659	483.689	0.235	0.314	7.044	19.368	2.258
2022-08-18 12:30	4843805	8.162	-115.857	272.13	19.425	432.161	483.666	0.235	0.314	6.863	19.425	2.469
2022-08-18 12:45	4844705	8.163	-115.931	272.578	19.488	432.553	483.448	0.235	0.314	6.907	19.488	2.607
2022-08-18 13:00	4845605	8.179	-116.906	267.102	19.614	433.357	483.052	0.235	0.314	6.921	19.614	2.3
2022-08-18 13:15	4846505	8.184	-117.261	271.563	19.766	434.863	483.166	0.235	0.314	7.126	19.766	2.479
2022-08-18 13:30	4847405	8.192	-117.784	270.216	19.909	436.405	483.415	0.235	0.314	7.365	19.909	2.709
2022-08-18 13:45	4848305	8.205	-118.518	268.49	20.029	438.44	484.433	0.236	0.315	7.486	20.029	3.006
2022-08-18 14:00	4849205	8.220	-119.433	260.576	20.104	438.595	483.836	0.235	0.314	7.527	20.104	2.642
2022-08-18 14:15	4850105	8.212	-119.002	270.523	20.19	439.255	483.691	0.235	0.314	8.316	20.19	3.062
2022-08-18 14:30	4851005	8.220	-119.498	271.889	20.302	439.698	483.037	0.235	0.314	8.375	20.302	2.522
2022-08-18 14:45	4851905	8.273	-122.521	267.116	20.372	439.722	482.362	0.235	0.314	8.370	20.372	2.465
2022-08-18 15:00	4852805	8.284	-123.169	266.229	20.442	439.759	481.697	0.234	0.313	8.685	20.442	2.547
2022-08-18 15:15	4853705	8.306	-124.493	270.02	20.499	439.873	481.244	0.234	0.313	8.909	20.499	2.331
2022-08-18 15:30	4854605	8.327	-125.704	268.101	20.538	440.846	481.921	0.235	0.313	8.767	20.538	2.479
2022-08-18 15:45	4855505	8.315	-125.01	266.518	20.57	440.61	481.34	0.234	0.313	8.790	20.57	2.991
2022-08-18 16:00	4856405	8.329	-125.821	257.162	20.591	440.558	481.065	0.234	0.313	8.920	20.591	2.609
2022-08-18 16:15	4857305	8.320	-125.332	266.704	20.604	440.715	481.114	0.234	0.313	9.225	20.604	2.571
2022-08-18 16:30	4858205	8.306	-124.552	269.043	20.652	440.75	480.672	0.234	0.312	9.043	20.652	2.521
2022-08-18 16:45	4859105	8.350	-127.065	269.455	20.681	440.845	480.483	0.234	0.312	9.105	20.681	2.474
2022-08-18 17:00	4860005	8.336	-126.264	263.585	20.733	441.592	480.779	0.234	0.313	9.266	20.733	2.561
2022-08-18 17:15	4860905	8.338	-126.429	269.596	20.784	442.499	481.248	0.234	0.313	9.273	20.784	2.507
2022-08-18 17:30	4861805	8.342	-126.626	269.729	20.833	443.166	481.493	0.234	0.313	9.291	20.833	2.358
2022-08-18 17:45	4862705	8.354	-127.356	268.828	20.866	443.698	481.739	0.234	0.313	9.117	20.866	2.402
2022-08-18 18:00	4863605	8.356	-127.487	259.287	20.872	443.004	480.926	0.234	0.313	9.297	20.872	2.78
2022-08-18 18:15	4864505	8.334	-126.2	267.007	20.885	442.78	480.551	0.234	0.312	9.345	20.885	2.876
2022-08-18 18:30	4865405	8.321	-125.492	268.766	20.893	443.055	480.766	0.234	0.312	9.491	20.893	2.351
2022-08-18 18:45	4866305	8.308	-124.738	270.13	20.879	442.159	479.932	0.234	0.312	9.424	20.879	2.557
2022-08-18 19:00	4867205	8.361	-127.769	264.096	20.89	442.62	480.326	0.234	0.312	9.580	20.89	2.685
2022-08-18 19:15	4868105	8.333	-126.181	269.865	20.918	443.21	480.685	0.234	0.312	9.538	20.918	2.42
2022-08-18 19:30	4869005	8.346	-126.915	268.876	20.906	443.05	480.629	0.234	0.312	9.539	20.906	2.38
2022-08-18 19:45	4869905	8.332	-126.138	268.754	20.904	442.92	480.512	0.234	0.312	9.520	20.904	2.527
2022-08-18 20:00	4870805	8.358	-127.604	259.496	20.881	442.682	480.486	0.234	0.312	9.514	20.881	2.477
2022-08-18 20:15	4871705	8.362	-127.835	266.582	20.894	443.023	480.722	0.234	0.312	9.565	20.894	2.6
2022-08-18 20:30	4872605	8.350	-127.168	269.152	20.922	443.263	480.708	0.234	0.312	9.894	20.922	2.581
2022-08-18 20:45	4873505	8.351	-127.223	270.752	20.967	443.508	480.521	0.234	0.312	9.641	20.967	2.507
2022-08-18 21:00	4874405	8.353	-127.37	265.223	21.065	444.063	480.15	0.234	0.312	9.620	21.065	2.675
2022-08-18 21:15	4875305	8.343	-126.884	270.518	21.21	445.937	480.74	0.234	0.312	9.678	21.21	2.6
2022-08-18 21:30	4876205	8.340	-126.753	271.892	21.345	449.355	483.076	0.235	0.314	8.929	21.345	2.785
2022-08-18 21:45	4877105	8.302	-124.612	271.646	21.438	451.346	484.297	0.236	0.315	8.578	21.438	2.781
2022-08-18 22:00	4878005	8.277	-123.243	268.237	21.463	451.85	484.586	0.236	0.315	8.404	21.463	2.695
2022-08-18 22:15	4878905	8.277	-123.241	268.883	21.475	452.543	485.214	0.236	0.315	8.332	21.475	2.561
2022-08-18 22:30	4879805	8.284	-123.603	265.533	21.48	452.741	485.371	0.236	0.315	8.184	21.48	2.389
2022-08-18 22:45	4880705	8.271	-122.89	266.721	21.475	452.69	485.372	0.236	0.315	7.998	21.475	2.479

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-18 23:00	4881605	8.246	-121.455	262.741	21.432	451.832	484.879	0.236	0.315	8.049	21.432	2.571
2022-08-18 23:15	4882505	8.255	-121.951	268.804	21.387	451.819	485.307	0.236	0.315	7.900	21.387	2.573
2022-08-18 23:30	4883405	8.258	-122.08	267.126	21.353	451.091	484.868	0.236	0.315	8.014	21.353	2.799
2022-08-18 23:45	4884305	8.225	-120.218	267.209	21.294	450.861	485.205	0.236	0.315	8.036	21.294	2.604
2022-08-19 00:00	4885205	8.225	-120.149	262.145	21.216	450.083	485.145	0.236	0.315	7.900	21.216	2.435
2022-08-19 00:15	4886105	8.229	-120.342	269.839	21.108	448.942	484.994	0.236	0.315	7.728	21.108	2.482
2022-08-19 00:30	4887005	8.232	-120.49	269.186	21.101	448.658	484.756	0.236	0.315	7.850	21.101	2.408
2022-08-19 00:45	4887905	8.214	-119.467	269.405	21.001	447.835	484.874	0.236	0.315	7.870	21.001	3.65
2022-08-19 01:00	4888805	8.245	-121.188	263.077	20.977	447.852	485.132	0.236	0.315	7.719	20.977	2.66
2022-08-19 01:15	4889705	8.214	-119.41	270.313	20.929	447.905	485.67	0.236	0.316	7.599	20.929	2.682
2022-08-19 01:30	4890605	8.198	-118.506	269.517	20.904	447.29	485.253	0.236	0.315	7.442	20.904	2.721
2022-08-19 01:45	4891505	8.255	-121.698	269.26	20.791	446.638	485.681	0.236	0.316	7.358	20.791	2.591
2022-08-19 02:00	4892405	8.226	-120.039	260.762	20.733	445.954	485.52	0.236	0.316	7.538	20.733	2.65
2022-08-19 02:15	4893305	8.224	-119.913	270.342	20.722	445.74	485.401	0.236	0.316	7.372	20.722	2.392
2022-08-19 02:30	4894205	8.210	-119.059	273.782	20.611	444.628	485.315	0.236	0.315	7.332	20.611	2.48
2022-08-19 02:45	4895105	8.182	-117.478	273.062	20.598	444.55	485.358	0.236	0.315	7.367	20.598	2.445
2022-08-19 03:00	4896005	8.204	-118.718	265.784	20.546	444.458	485.786	0.236	0.316	7.291	20.546	2.454
2022-08-19 03:15	4896905	8.187	-117.724	272.946	20.514	444.193	485.82	0.236	0.316	7.119	20.514	2.497
2022-08-19 03:30	4897805	8.202	-118.573	272.462	20.446	443.497	485.746	0.236	0.316	7.153	20.446	2.651
2022-08-19 03:45	4898705	8.145	-115.268	273.439	20.381	443.009	485.872	0.236	0.316	7.057	20.381	2.731
2022-08-19 04:00	4899605	8.194	-118.043	268.134	20.289	442.081	485.789	0.236	0.316	7.066	20.289	2.286
2022-08-19 04:15	4900505	8.187	-117.59	273.964	20.252	441.503	485.539	0.236	0.316	6.959	20.252	2.335
2022-08-19 04:30	4901405	8.180	-117.207	275.284	20.22	441.456	485.813	0.236	0.316	6.851	20.22	2.262
2022-08-19 04:45	4902305	8.168	-116.494	277.843	20.17	440.931	485.742	0.236	0.316	6.810	20.17	2.551
2022-08-19 05:00	4903205	8.178	-117.033	271.537	20.105	440.565	486.009	0.237	0.316	6.685	20.105	2.414
2022-08-19 05:15	4904105	8.153	-115.631	278.155	20.092	440.453	486.01	0.237	0.316	6.703	20.092	2.524
2022-08-19 05:30	4905005	8.184	-117.376	276.36	20.046	439.981	485.963	0.237	0.316	6.577	20.046	2.29
2022-08-19 05:45	4905905	8.162	-116.084	276.036	19.997	439.639	486.09	0.237	0.316	***6.480***	19.997	2.219
2022-08-19 06:00	4906805	8.164	-116.138	266.775	19.861	438.507	486.229	0.237	0.316	6.671	19.861	2.43
2022-08-19 06:15	4907705	8.164	-116.158	274.91	19.842	437.843	485.689	0.236	0.316	6.516	19.842	2.437
2022-08-19 06:30	4908605	8.147	-115.159	277.461	19.782	437.324	485.739	0.236	0.316	6.792	19.782	2.263
2022-08-19 06:45	4909505	8.162	-115.998	278.258	19.731	436.587	485.445	0.236	0.316	6.793	19.731	2.3
2022-08-19 07:00	4910405	8.174	-116.653	271.92	19.676	436.337	485.733	0.236	0.316	6.798	19.676	2.672
2022-08-19 07:15	4911305	8.184	-117.216	278.792	19.667	436.163	485.63	0.236	0.316	6.986	19.667	2.323
2022-08-19 07:30	4912205	8.179	-116.916	277.085	19.646	436.019	485.685	0.236	0.316	6.890	19.646	2.399
2022-08-19 07:45	4913105	8.175	-116.696	276.853	19.621	435.423	485.28	0.236	0.315	7.302	19.621	2.542
2022-08-19 08:00	4914005	8.209	-118.597	265.485	19.587	435.384	485.588	0.236	0.316	7.167	19.587	2.344
2022-08-19 08:15	4914905	8.182	-117.052	274.367	19.58	435.102	485.346	0.236	0.315	7.286	19.58	2.458
2022-08-19 08:30	4915805	8.198	-117.989	276.012	19.568	435.18	485.555	0.236	0.316	7.209	19.568	2.363
2022-08-19 08:45	4916705	8.207	-118.446	277.49	19.553	434.664	485.138	0.236	0.315	7.354	19.553	2.297
2022-08-19 09:00	4917605	8.232	-119.882	271.467	19.544	434.538	485.087	0.236	0.315	7.567	19.544	2.251
2022-08-19 09:15	4918505	8.248	-120.795	275.597	19.545	434.323	484.841	0.236	0.315	7.634	19.545	3.458
2022-08-19 09:30	4919405	8.255	-121.157	273.451	19.544	434.18	484.686	0.236	0.315	7.684	19.544	2.544
2022-08-19 09:45	4920305	8.257	-121.31	271.062	19.553	434.367	484.808	0.236	0.315	7.645	19.553	2.314
2022-08-19 10:00	4921205	8.241	-120.385	265.071	19.557	434.664	485.1	0.236	0.315	7.489	19.557	2.325
2022-08-19 10:15	4922105	8.242	-120.432	270.752	19.574	435.195	485.516	0.236	0.316	7.216	19.574	2.047
2022-08-19 10:30	4923005	8.212	-118.749	273.525	19.587	435.753	485.997	0.236	0.316	7.117	19.587	2.086
2022-08-19 10:45	4923905	8.212	-118.742	273.661	19.596	435.998	486.178	0.237	0.316	6.905	19.596	2.16

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-19 11:00	4924805	8.207	-118.468	267.245	19.605	435.186	485.182	0.236	0.315	7.072	19.605	2.183
2022-08-19 11:15	4925705	8.218	-119.121	272.366	19.617	435.217	485.093	0.236	0.315	7.123	19.617	2.202
2022-08-19 11:30	4926605	8.213	-118.866	271.715	19.642	435.733	485.405	0.236	0.316	7.150	19.642	2.173
2022-08-19 11:45	4927505	8.203	-118.279	271.086	19.682	436.191	485.502	0.236	0.316	7.030	19.682	2.193
2022-08-19 12:00	4928405	8.212	-118.809	260.03	19.743	436.942	485.712	0.236	0.316	7.173	19.743	2.456
2022-08-19 12:15	4929305	8.213	-118.918	267.924	19.792	437.725	486.078	0.237	0.316	7.578	19.792	2.382
2022-08-19 12:30	4930205	8.227	-119.691	269.856	19.844	438.191	486.06	0.237	0.316	7.390	19.844	2.208
2022-08-19 12:45	4931105	8.220	-119.355	272.545	19.883	438.488	485.981	0.237	0.316	7.147	19.883	2.241
2022-08-19 13:00	4932005	8.213	-118.961	269.157	19.953	438.838	485.654	0.236	0.316	7.157	19.953	2.418
2022-08-19 13:15	4932905	8.206	-118.604	272.76	20.046	439.794	485.761	0.236	0.316	7.232	20.046	2.26
2022-08-19 13:30	4933805	8.205	-118.599	271.057	20.166	441.01	485.865	0.236	0.316	7.461	20.166	2.305
2022-08-19 13:45	4934705	8.212	-119.04	270.759	20.299	442.135	485.748	0.236	0.316	7.515	20.299	2.228
2022-08-19 14:00	4935605	8.223	-119.731	266.632	20.381	443.078	485.95	0.237	0.316	7.699	20.381	2.335
2022-08-19 14:15	4936505	8.236	-120.502	271.537	20.476	443.816	485.791	0.236	0.316	8.082	20.476	2.311
2022-08-19 14:30	4937405	8.236	-120.506	272.655	20.569	444.737	485.854	0.236	0.316	7.919	20.569	2.306
2022-08-19 14:45	4938305	8.241	-120.838	274.076	20.645	445.292	485.691	0.236	0.316	7.854	20.645	2.408
2022-08-19 15:00	4939205	8.284	-123.346	265.545	20.74	445.557	485.019	0.236	0.315	8.270	20.74	2.431
2022-08-19 15:15	4940105	8.262	-122.089	270.552	20.818	446.202	484.934	0.236	0.315	8.182	20.818	2.904
2022-08-19 15:30	4941005	8.342	-126.665	268.733	20.849	445.785	484.173	0.236	0.315	8.747	20.849	2.4
2022-08-19 15:45	4941905	8.349	-127.058	267.498	20.885	445.991	484.032	0.236	0.315	8.766	20.885	2.484
2022-08-19 16:00	4942805	8.328	-125.866	262.841	20.889	445.417	483.373	0.235	0.314	8.966	20.889	2.603
2022-08-19 16:15	4943705	8.349	-127.072	268.413	20.94	445.884	483.364	0.235	0.314	9.106	20.94	2.561
2022-08-19 16:30	4944605	8.344	-126.853	270.161	21.003	446.117	482.99	0.235	0.314	9.415	21.003	2.6
2022-08-19 16:45	4945505	8.347	-127.051	269.915	21.067	446.515	482.777	0.235	0.314	9.607	21.067	2.488
2022-08-19 17:00	4946405	8.354	-127.451	263.759	21.14	447.183	482.777	0.235	0.314	9.378	21.14	2.291
2022-08-19 17:15	4947305	8.372	-128.508	268.859	21.182	447.273	482.454	0.235	0.314	9.390	21.182	2.471
2022-08-19 17:30	4948205	8.378	-128.865	266.363	21.218	446.678	481.461	0.234	0.313	10.072	21.218	2.706
2022-08-19 17:45	4949105	8.389	-129.495	265.393	21.27	446.914	481.2	0.234	0.313	10.046	21.27	2.732
2022-08-19 18:00	4950005	8.416	-131.071	252.635	21.29	447.387	481.512	0.234	0.313	10.078	21.29	2.85
2022-08-19 18:15	4950905	8.389	-129.545	263.163	21.3	447.446	481.469	0.234	0.313	9.834	21.3	2.412
2022-08-19 18:30	4951805	8.387	-129.416	266.303	21.35	448.193	481.784	0.234	0.313	10.328	21.35	2.386
2022-08-19 18:45	4952705	8.366	-128.253	269.427	21.389	448.725	481.962	0.235	0.313	9.831	21.389	2.398
2022-08-19 19:00	4953605	8.389	-129.602	260.207	21.436	449.007	481.803	0.234	0.313	9.766	21.436	2.358
2022-08-19 19:15	4954505	8.361	-128.036	268.525	21.478	448.457	480.801	0.234	0.313	10.252	21.478	2.388
2022-08-19 19:30	4955405	8.385	-129.411	266.926	21.498	449.544	481.771	0.234	0.313	9.783	21.498	4.576
2022-08-19 19:45	4956305	8.406	-130.568	267.774	21.517	449.932	481.999	0.235	0.313	9.556	21.517	2.259
2022-08-19 20:00	4957205	8.393	-129.864	255.753	21.513	448.99	481.022	0.234	0.313	9.828	21.513	2.623
2022-08-19 20:15	4958105	8.381	-129.163	264.684	21.534	449.808	481.694	0.234	0.313	10.233	21.534	2.347
2022-08-19 20:30	4959005	8.357	-127.811	268.051	21.569	451.071	482.707	0.235	0.314	9.990	21.569	2.348
2022-08-19 20:45	4959905	8.357	-127.859	269.553	21.605	450.765	482.025	0.235	0.313	10.169	21.605	2.364
2022-08-19 21:00	4960805	8.375	-128.901	263.697	21.646	450.195	481.01	0.234	0.313	10.136	21.646	2.452
2022-08-19 21:15	4961705	8.338	-126.772	267.486	21.675	461.849	493.173	0.240	0.321	10.068	21.675	2.308
2022-08-19 21:30	4962605	8.359	-127.971	266.968	21.657	450.695	481.437	0.234	0.313	9.774	21.657	2.378
2022-08-19 21:45	4963505	8.343	-127.029	265.197	21.607	448.98	480.095	0.234	0.312	9.840	21.607	2.408
2022-08-19 22:00	4964405	8.419	-131.319	255.577	21.524	448.129	479.996	0.234	0.312	10.296	21.524	2.601
2022-08-19 22:15	4965305	8.394	-129.919	263.595	21.51	448.481	480.513	0.234	0.312	10.408	21.51	2.457
2022-08-19 22:30	4966205	8.401	-130.32	266.308	21.496	448.443	480.606	0.234	0.312	10.430	21.496	2.538
2022-08-19 22:45	4967105	8.411	-130.875	266.79	21.504	448.72	480.823	0.234	0.313	10.527	21.504	2.411

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-19 23:00	4968005	8.398	-130.134	260.374	21.516	448.708	480.695	0.234	0.312	10.286	21.516	2.487
2022-08-19 23:15	4968905	8.381	-129.166	268.935	21.536	448.583	480.367	0.234	0.312	10.122	21.536	2.37
2022-08-19 23:30	4969805	8.361	-128.059	269.398	21.551	449.866	481.594	0.234	0.313	10.070	21.551	2.414
2022-08-19 23:45	4970705	8.262	-122.385	268.923	21.49	449.439	481.739	0.234	0.313	9.700	21.49	2.483
2022-08-20 00:00	4971605	8.305	-124.769	264.115	21.312	448.747	482.753	0.235	0.314	9.407	21.312	2.366
2022-08-20 00:15	4972505	8.301	-124.5	271.558	21.228	448.722	483.556	0.235	0.314	9.068	21.228	2.522
2022-08-20 00:30	4973405	8.275	-123.01	274.381	21.214	448.952	483.95	0.236	0.315	8.776	21.214	2.393
2022-08-20 00:45	4974305	8.263	-122.335	275.149	21.228	449.339	484.229	0.236	0.315	8.887	21.228	2.369
2022-08-20 01:00	4975205	8.240	-121.055	267.002	21.241	449.459	484.228	0.236	0.315	8.593	21.241	2.375
2022-08-20 01:15	4976105	8.244	-121.26	274.679	21.253	449.653	484.31	0.236	0.315	8.564	21.253	4.958
2022-08-20 01:30	4977005	8.248	-121.469	274.092	21.27	449.233	483.697	0.235	0.314	8.366	21.27	2.318
2022-08-20 01:45	4977905	8.245	-121.355	274.963	21.305	449.541	483.681	0.235	0.314	8.475	21.305	2.369
2022-08-20 02:00	4978805	8.251	-121.694	264.584	21.33	450.121	484.052	0.236	0.315	8.519	21.33	2.321
2022-08-20 02:15	4979705	8.253	-121.825	273.215	21.372	450.606	484.157	0.236	0.315	8.832	21.372	2.264
2022-08-20 02:30	4980605	8.246	-121.429	276.536	21.422	450.813	483.881	0.236	0.315	8.927	21.422	2.411
2022-08-20 02:45	4981505	8.263	-122.406	276.007	21.457	451.112	483.85	0.236	0.315	8.705	21.457	2.334
2022-08-20 03:00	4982405	8.244	-121.346	265.09	21.474	451.984	484.625	0.236	0.315	8.292	21.474	2.485
2022-08-20 03:15	4983305	8.238	-120.983	273.422	21.452	452.195	485.07	0.236	0.315	7.980	21.452	2.435
2022-08-20 03:30	4984205	8.234	-120.773	269.567	21.44	451.725	484.677	0.236	0.315	8.168	21.44	2.291
2022-08-20 03:45	4985105	8.240	-121.095	268.094	21.411	451.855	485.107	0.236	0.315	8.021	21.411	2.287
2022-08-20 04:00	4986005	8.286	-123.684	257.589	21.309	450.348	484.501	0.236	0.315	8.189	21.309	2.387
2022-08-20 04:15	4986905	8.243	-121.214	264.861	21.254	449.43	484.06	0.236	0.315	8.229	21.254	2.428
2022-08-20 04:30	4987805	8.231	-120.475	268.9	21.208	449.407	484.496	0.236	0.315	8.196	21.208	2.502
2022-08-20 04:45	4988705	8.229	-120.347	271.25	21.134	448.99	484.787	0.236	0.315	8.044	21.134	2.459
2022-08-20 05:00	4989605	8.270	-122.693	265.848	21.118	449.164	485.132	0.236	0.315	7.952	21.118	2.518
2022-08-20 05:15	4990505	8.227	-120.251	269.181	21.092	448.987	485.202	0.236	0.315	7.898	21.092	2.386
2022-08-20 05:30	4991405	8.256	-121.853	269.379	21.032	448.624	485.417	0.236	0.316	7.861	21.032	2.482
2022-08-20 05:45	4992305	8.199	-118.592	269.722	20.97	448.172	485.551	0.236	0.316	7.686	20.97	2.446
2022-08-20 06:00	4993205	8.259	-121.939	259.356	20.894	447.799	485.902	0.237	0.316	7.691	20.894	2.56
2022-08-20 06:15	4994105	8.239	-120.797	269.083	20.84	446.96	485.535	0.236	0.316	7.528	20.84	2.325
2022-08-20 06:30	4995005	8.226	-120.07	271.162	20.783	446.73	485.868	0.237	0.316	7.571	20.783	2.218
2022-08-20 06:45	4995905	8.186	-117.733	271.923	20.742	446.537	486.066	0.237	0.316	7.442	20.742	2.246
2022-08-20 07:00	4996805	8.208	-118.959	268.409	20.684	446.326	486.422	0.237	0.316	7.183	20.684	2.37
2022-08-20 07:15	4997705	8.198	-118.401	274.383	20.652	446.18	486.587	0.237	0.316	7.026	20.652	2.473
2022-08-20 07:30	4998605	8.196	-118.277	273.899	20.604	445.758	486.619	0.237	0.316	6.939	20.604	2.35
2022-08-20 07:45	4999505	8.185	-117.631	272.979	20.548	445.249	486.633	0.237	0.316	6.855	20.548	6.521
2022-08-20 08:00	5000405	8.176	-117.09	263.278	20.477	444.783	486.84	0.237	0.316	6.778	20.477	2.357
2022-08-20 08:15	5001305	8.163	-116.353	272.721	20.455	444.296	486.53	0.237	0.316	6.742	20.455	2.375
2022-08-20 08:30	5002205	8.154	-115.821	274.307	20.439	444.295	486.696	0.237	0.316	6.779	20.439	2.237
2022-08-20 08:45	5003105	8.155	-115.857	274.679	20.424	444.161	486.699	0.237	0.316	6.789	20.424	2.327
2022-08-20 09:00	5004005	8.184	-117.517	267.951	20.411	443.896	486.538	0.237	0.316	6.933	20.411	2.328
2022-08-20 09:15	5004905	8.164	-116.403	275.375	20.417	443.9	486.489	0.237	0.316	6.967	20.417	2.495
2022-08-20 09:30	5005805	8.194	-118.086	273.759	20.417	443.775	486.347	0.237	0.316	7.049	20.417	2.34
2022-08-20 09:45	5006705	8.185	-117.569	272.457	20.408	443.687	486.34	0.237	0.316	7.255	20.408	2.3
2022-08-20 10:00	5007605	8.233	-120.261	263.092	20.398	443.441	486.175	0.237	0.316	7.322	20.398	2.392
2022-08-20 10:15	5008505	8.214	-119.216	269.794	20.402	444.101	486.859	0.237	0.316	7.472	20.402	2.258
2022-08-20 10:30	5009405	8.209	-118.93	272.712	20.406	443.9	486.593	0.237	0.316	7.190	20.406	2.181
2022-08-20 10:45	5010305	8.204	-118.625	272.254	20.403	443.757	486.468	0.237	0.316	7.377	20.403	2.143

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-20 11:00	5011205	8.263	-121.963	266.413	20.394	442.726	485.436	0.236	0.316	7.710	20.394	2.392
2022-08-20 11:15	5012105	8.263	-121.965	267.87	20.393	442.547	485.25	0.236	0.315	8.091	20.393	2.334
2022-08-20 11:30	5013005	8.266	-122.123	266.668	20.378	441.99	484.788	0.236	0.315	8.278	20.378	2.491
2022-08-20 11:45	5013905	8.282	-123.043	263.583	20.387	442.129	484.851	0.236	0.315	8.322	20.387	2.369
2022-08-20 12:00	5014805	8.303	-124.259	259.148	20.407	442.644	485.207	0.236	0.315	8.229	20.407	2.39
2022-08-20 12:15	5015705	8.315	-124.941	265.393	20.425	442.822	485.221	0.236	0.315	8.437	20.425	2.377
2022-08-20 12:30	5016605	8.303	-124.304	265.733	20.456	443.385	485.521	0.236	0.316	8.267	20.456	2.264
2022-08-20 12:45	5017505	8.279	-122.955	267.641	20.49	444.034	485.894	0.237	0.316	8.057	20.49	2.197
2022-08-20 13:00	5018405	8.290	-123.572	264.074	20.518	443.74	485.283	0.236	0.315	8.176	20.518	2.419
2022-08-20 13:15	5019305	8.260	-121.894	269.193	20.546	444.122	485.418	0.236	0.316	8.050	20.546	2.333
2022-08-20 13:30	5020205	8.300	-124.147	268.358	20.559	444.427	485.616	0.236	0.316	7.936	20.559	2.304
2022-08-20 13:45	5021105	8.292	-123.694	267.488	20.573	444.467	485.525	0.236	0.316	7.837	20.573	2.373
2022-08-20 14:00	5022005	8.299	-124.097	262.45	20.577	444.669	485.697	0.236	0.316	8.029	20.577	2.315
2022-08-20 14:15	5022905	8.273	-122.623	268.645	20.59	444.944	485.867	0.236	0.316	7.800	20.59	2.169
2022-08-20 14:30	5023805	8.261	-121.951	271.067	20.605	445.051	485.837	0.236	0.316	7.857	20.605	2.221
2022-08-20 14:45	5024705	8.248	-121.241	273.456	20.609	445.267	486.029	0.237	0.316	7.801	20.609	2.175
2022-08-20 15:00	5025605	8.274	-122.697	269.877	20.618	445.004	485.647	0.236	0.316	7.745	20.618	2.376
2022-08-20 15:15	5026505	8.290	-123.63	274.274	20.623	445.425	486.061	0.237	0.316	7.560	20.623	2.244
2022-08-20 15:30	5027405	8.265	-122.185	271.167	20.631	445.54	486.107	0.237	0.316	7.627	20.631	2.225
2022-08-20 15:45	5028305	8.263	-122.061	268.13	20.64	445.702	486.193	0.237	0.316	7.582	20.64	2.169
2022-08-20 16:00	5029205	8.262	-122.03	260.452	20.64	445.934	486.444	0.237	0.316	7.452	20.64	2.145
2022-08-20 16:15	5030105	8.256	-121.696	266.923	20.64	445.77	486.261	0.237	0.316	7.430	20.64	2.165
2022-08-20 16:30	5031005	8.235	-120.504	267.855	20.65	445.8	486.196	0.237	0.316	7.572	20.65	2.145
2022-08-20 16:45	5031905	8.202	-118.654	269.186	20.649	445.721	486.118	0.237	0.316	7.634	20.649	2.324
2022-08-20 17:00	5032805	8.286	-123.422	262.734	20.664	445.626	485.864	0.236	0.316	7.852	20.664	2.312
2022-08-20 17:15	5033705	8.244	-121.019	267.92	20.673	446.137	486.33	0.237	0.316	7.489	20.673	2.265
2022-08-20 17:30	5034605	8.251	-121.436	268.223	20.672	446.27	486.484	0.237	0.316	7.467	20.672	2.291
2022-08-20 17:45	5035505	8.246	-121.114	268.087	20.675	446.453	486.658	0.237	0.316	7.471	20.675	2.218
2022-08-20 18:00	5036405	8.234	-120.48	261.325	20.676	446.736	486.953	0.237	0.317	7.264	20.676	2.164
2022-08-20 18:15	5037305	8.223	-119.853	267.46	20.676	446.734	486.949	0.237	0.317	7.083	20.676	2.202
2022-08-20 18:30	5038205	8.222	-119.765	268.749	20.687	447.256	487.404	0.237	0.317	7.251	20.687	2.081
2022-08-20 18:45	5039105	8.212	-119.228	270.564	20.693	447.345	487.441	0.237	0.317	7.045	20.693	2.215
2022-08-20 19:00	5040005	8.204	-118.787	268.118	20.698	446.881	486.883	0.237	0.316	6.976	20.698	2.215
2022-08-20 19:15	5040905	8.232	-120.327	271.2	20.689	446.674	486.749	0.237	0.316	7.182	20.689	2.415
2022-08-20 19:30	5041805	8.282	-123.165	266.277	20.691	446.39	486.428	0.237	0.316	7.587	20.691	2.242
2022-08-20 19:45	5042705	8.306	-124.54	265.142	20.694	446.433	486.443	0.237	0.316	7.456	20.694	2.157
2022-08-20 20:00	5043605	8.288	-123.544	257.889	20.697	446.168	486.118	0.237	0.316	7.583	20.697	2.179
2022-08-20 20:15	5044505	8.271	-122.554	264.651	20.697	446.171	486.124	0.237	0.316	7.533	20.697	2.218
2022-08-20 20:30	5045405	8.256	-121.717	265.707	20.707	446.434	486.306	0.237	0.316	7.648	20.707	2.143
2022-08-20 20:45	5046305	8.268	-122.428	267.483	20.718	446.902	486.705	0.237	0.316	7.500	20.718	2.127
2022-08-20 21:00	5047205	8.234	-120.454	265.853	20.708	446.27	486.117	0.237	0.316	7.225	20.708	2.273
2022-08-20 21:15	5048105	8.255	-121.632	269.481	20.708	446.904	486.815	0.237	0.316	7.375	20.708	2.137
2022-08-20 21:30	5049005	8.243	-120.99	269.431	20.685	446.527	486.637	0.237	0.316	7.215	20.685	2.171
2022-08-20 21:45	5049905	8.252	-121.491	266.341	20.675	446.227	486.406	0.237	0.316	7.450	20.675	2.183
2022-08-20 22:00	5050805	8.220	-119.619	262.329	20.646	445.637	486.058	0.237	0.316	7.383	20.646	2.177
2022-08-20 22:15	5051705	8.214	-119.281	265.862	20.626	445.552	486.165	0.237	0.316	7.426	20.626	2.211
2022-08-20 22:30	5052605	8.182	-117.462	268.416	20.586	444.491	485.419	0.236	0.316	7.453	20.586	2.2
2022-08-20 22:45	5053505	8.212	-119.164	267.867	20.568	444.486	485.594	0.236	0.316	7.632	20.568	2.124

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-20 23:00	5054405	8.262	-121.987	263.371	20.56	444.781	486	0.237	0.316	7.462	20.56	2.198
2022-08-20 23:15	5055305	8.190	-117.877	268.94	20.537	444.559	485.986	0.237	0.316	7.493	20.537	2.168
2022-08-20 23:30	5056205	8.211	-119.092	268.275	20.51	444.118	485.773	0.236	0.316	7.396	20.51	2.172
2022-08-20 23:45	5057105	8.243	-120.909	266.065	20.487	443.957	485.834	0.236	0.316	7.584	20.487	2.256
2022-08-21 00:00	5058005	8.265	-122.118	258.414	20.452	443.781	485.999	0.237	0.316	7.439	20.452	2.147
2022-08-21 00:15	5058905	8.234	-120.318	268.916	20.412	443.319	485.895	0.236	0.316	7.373	20.412	2.5
2022-08-21 00:30	5059805	8.215	-119.271	270.29	20.387	442.81	485.598	0.236	0.316	7.427	20.387	2.183
2022-08-21 00:45	5060705	8.231	-120.127	271.434	20.36	442.831	485.892	0.236	0.316	7.503	20.36	2.181
2022-08-21 01:00	5061605	8.259	-121.71	268.068	20.328	442.534	485.893	0.236	0.316	7.351	20.328	2.199
2022-08-21 01:15	5062505	8.254	-121.431	270.931	20.328	442.662	486.037	0.237	0.316	7.319	20.328	2.236
2022-08-21 01:30	5063405	8.226	-119.851	269.391	20.282	442.034	485.816	0.236	0.316	7.398	20.282	3.373
2022-08-21 01:45	5064305	8.252	-121.298	268.223	20.214	441.348	485.754	0.236	0.316	7.466	20.214	2.795
2022-08-21 02:00	5065205	8.260	-121.722	261.857	20.126	440.607	485.839	0.236	0.316	7.593	20.126	2.455
2022-08-21 02:15	5066105	8.244	-120.788	269.295	20.099	440.151	485.606	0.236	0.316	7.483	20.099	2.319
2022-08-21 02:30	5067005	8.247	-120.924	272.125	20.054	439.932	485.824	0.236	0.316	7.517	20.054	2.439
2022-08-21 02:45	5067905	8.236	-120.318	273.661	20.011	439.526	485.818	0.236	0.316	7.551	20.011	2.349
2022-08-21 03:00	5068805	8.269	-122.151	263.871	19.955	439.112	485.934	0.236	0.316	7.560	19.955	2.51
2022-08-21 03:15	5069705	8.259	-121.574	272.593	19.947	438.536	485.379	0.236	0.315	7.739	19.947	2.638
2022-08-21 03:30	5070605	8.287	-123.172	272.168	19.933	438.396	485.372	0.236	0.315	7.746	19.933	2.526
2022-08-21 03:45	5071505	8.286	-123.069	271.625	19.91	438.232	485.424	0.236	0.316	7.884	19.91	2.546
2022-08-21 04:00	5072405	8.300	-123.839	261.354	19.876	438.217	485.752	0.236	0.316	7.865	19.876	2.502
2022-08-21 04:15	5073305	8.303	-124.044	271.537	19.874	438.488	486.078	0.237	0.316	7.827	19.874	2.307
2022-08-21 04:30	5074205	8.292	-123.429	273.38	19.863	438.577	486.294	0.237	0.316	7.967	19.863	2.361
2022-08-21 04:45	5075105	8.301	-123.906	274.271	19.86	438.628	486.38	0.237	0.316	7.820	19.86	2.327
2022-08-21 05:00	5076005	8.300	-123.835	268.575	19.858	438.058	485.767	0.236	0.316	7.934	19.858	2.379
2022-08-21 05:15	5076905	8.304	-124.102	275.358	19.853	438.012	485.763	0.236	0.316	7.925	19.853	2.998
2022-08-21 05:30	5077805	8.308	-124.283	274.615	19.85	438.124	485.926	0.236	0.316	7.821	19.85	2.433
2022-08-21 05:45	5078705	8.299	-123.785	273.802	19.85	438.299	486.12	0.237	0.316	7.647	19.85	2.213
2022-08-21 06:00	5079605	8.271	-122.173	269.694	19.803	438.081	486.357	0.237	0.316	7.657	19.803	2.549
2022-08-21 06:15	5080505	8.273	-122.299	275.623	19.808	438.202	486.442	0.237	0.316	7.674	19.808	2.603
2022-08-21 06:30	5081405	8.267	-121.937	277.931	19.79	437.865	486.257	0.237	0.316	7.713	19.79	2.333
2022-08-21 06:45	5082305	8.269	-122.068	278.756	19.775	438.013	486.567	0.237	0.316	7.615	19.775	2.411
2022-08-21 07:00	5083205	8.263	-121.725	273.434	19.757	437.704	486.418	0.237	0.316	7.454	19.757	2.224
2022-08-21 07:15	5084105	8.262	-121.639	278.82	19.75	437.523	486.284	0.237	0.316	7.547	19.75	2.498
2022-08-21 07:30	5085005	8.263	-121.729	277.607	19.72	437.115	486.143	0.237	0.316	7.598	19.72	2.439
2022-08-21 07:45	5085905	8.256	-121.281	275.354	19.713	437.137	486.241	0.237	0.316	7.534	19.713	2.408
2022-08-21 08:00	5086805	8.249	-120.89	268.592	19.695	437.263	486.566	0.237	0.316	7.301	19.695	2.268
2022-08-21 08:15	5087705	8.237	-120.215	274.371	19.697	437.152	486.416	0.237	0.316	7.429	19.697	2.457
2022-08-21 08:30	5088605	8.250	-120.935	276.074	19.681	437.242	486.69	0.237	0.316	7.489	19.681	2.393
2022-08-21 08:45	5089505	8.254	-121.205	277.819	19.687	437.522	486.934	0.237	0.317	7.688	19.687	2.424
2022-08-21 09:00	5090405	8.269	-122.018	267.703	19.705	437.128	486.314	0.237	0.316	7.595	19.705	2.661
2022-08-21 09:15	5091305	8.264	-121.748	276.164	19.73	437.431	486.384	0.237	0.316	7.460	19.73	2.239
2022-08-21 09:30	5092205	8.251	-121.007	274.536	19.746	438.086	486.952	0.237	0.317	7.277	19.746	2.289
2022-08-21 09:45	5093105	8.229	-119.82	274.865	19.761	438.27	487.001	0.237	0.317	7.081	19.761	2.114
2022-08-21 10:00	5094005	8.188	-117.49	270.638	19.767	438.753	487.478	0.237	0.317	6.564	19.767	2.399
2022-08-21 10:15	5094905	8.189	-117.557	273.122	19.781	439.508	488.174	0.238	0.317	6.548	19.781	2.364
2022-08-21 10:30	5095805	8.178	-116.909	274.03	19.786	439.599	488.22	0.238	0.317	***6.442***	19.786	2.401
2022-08-21 10:45	5096705	8.176	-116.813	274.708	19.78	439.509	488.185	0.238	0.317	6.551	19.78	2.308

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-21 11:00	5097605	8.202	-118.294	267.815	19.793	438.743	487.202	0.237	0.317	6.698	19.793	2.454
2022-08-21 11:15	5098505	8.213	-118.902	271.293	19.801	438.305	486.632	0.237	0.316	7.307	19.801	2.468
2022-08-21 11:30	5099405	8.216	-119.066	268.828	19.819	438.568	486.732	0.237	0.316	7.069	19.819	2.556
2022-08-21 11:45	5100305	8.216	-119.095	267.987	19.838	438.679	486.659	0.237	0.316	6.939	19.838	2.325
2022-08-21 12:00	5101205	8.221	-119.395	258.488	19.884	439.322	486.904	0.237	0.316	7.094	19.884	2.344
2022-08-21 12:15	5102105	8.223	-119.503	266.043	19.936	440.324	487.474	0.237	0.317	6.973	19.936	2.43
2022-08-21 12:30	5103005	8.213	-118.952	268.292	19.974	440.668	487.461	0.237	0.317	6.973	19.974	2.228
2022-08-21 12:45	5103905	8.203	-118.415	270.225	20.007	440.985	487.473	0.237	0.317	6.811	20.007	2.463
2022-08-21 13:00	5104805	8.195	-117.996	267.86	20.059	441.014	486.976	0.237	0.317	6.730	20.059	2.418
2022-08-21 13:15	5105705	8.205	-118.608	270.356	20.166	441.929	486.881	0.237	0.316	6.979	20.166	2.362
2022-08-21 13:30	5106605	8.215	-119.19	267.495	20.28	443.009	486.903	0.237	0.316	6.979	20.28	2.519
2022-08-21 13:45	5107505	8.232	-120.22	265.779	20.418	444.434	487.056	0.237	0.317	7.163	20.418	2.384
2022-08-21 14:00	5108405	8.256	-121.62	260.002	20.528	445.553	487.165	0.237	0.317	7.241	20.528	2.68
2022-08-21 14:15	5109305	8.321	-125.344	264.255	20.62	445.971	486.686	0.237	0.316	7.514	20.62	3.093
2022-08-21 14:30	5110205	8.336	-126.269	264.62	20.703	446.619	486.554	0.237	0.316	8.535	20.703	2.77
2022-08-21 14:45	5111105	8.347	-126.944	263.738	20.782	447.361	486.557	0.237	0.316	8.355	20.782	2.765
2022-08-21 15:00	5112005	8.314	-125.051	260.019	20.851	447.816	486.354	0.237	0.316	8.478	20.851	3.427
2022-08-21 15:15	5112905	8.330	-125.999	265.741	20.895	447.823	485.923	0.237	0.316	8.710	20.895	2.981
2022-08-21 15:30	5113805	8.358	-127.63	264.408	20.929	447.893	485.653	0.236	0.316	8.689	20.929	2.721
2022-08-21 15:45	5114705	8.344	-126.82	264.751	20.927	447.778	485.554	0.236	0.316	8.868	20.927	2.738
2022-08-21 16:00	5115605	8.376	-128.653	258.548	20.922	447.823	485.647	0.236	0.316	8.914	20.922	2.652
2022-08-21 16:15	5116505	8.409	-130.517	265.178	20.952	446.801	484.242	0.236	0.315	9.594	20.952	2.771
2022-08-21 16:30	5117405	8.420	-131.197	264.706	21.092	448.046	484.192	0.236	0.315	9.673	21.092	2.844
2022-08-21 16:45	5118305	8.454	-133.157	263.695	21.181	447.556	482.775	0.235	0.314	10.090	21.181	2.761
2022-08-21 17:00	5119205	8.448	-132.847	259.525	21.224	447.972	482.789	0.235	0.314	10.395	21.224	2.626
2022-08-21 17:15	5120105	8.465	-133.836	265.724	21.281	448.745	483.055	0.235	0.314	10.106	21.281	2.695
2022-08-21 17:30	5121005	8.433	-132.055	262.691	21.294	448.567	482.733	0.235	0.314	10.020	21.294	3.088
2022-08-21 17:45	5121905	8.467	-134.001	261.113	21.351	447.933	481.496	0.234	0.313	10.842	21.351	2.846
2022-08-21 18:00	5122805	8.457	-133.448	251.834	21.415	448.889	481.884	0.235	0.313	10.538	21.415	11.462
2022-08-21 18:15	5123705	8.472	-134.335	259.318	21.417	448.912	481.891	0.235	0.313	10.620	21.417	2.687
2022-08-21 18:30	5124605	8.435	-132.174	263.304	21.385	449.53	482.875	0.235	0.314	10.254	21.385	2.695
2022-08-21 18:45	5125505	8.418	-131.202	267.302	21.299	449.375	483.56	0.235	0.314	9.769	21.299	2.838
2022-08-21 19:00	5126405	8.407	-130.556	263.43	21.253	448.914	483.518	0.235	0.314	9.836	21.253	2.68
2022-08-21 19:15	5127305	8.411	-130.758	268.199	21.268	449.01	483.473	0.235	0.314	9.725	21.268	2.68
2022-08-21 19:30	5128205	8.333	-126.324	267.793	21.233	449.169	483.994	0.236	0.315	9.640	21.233	2.608
2022-08-21 19:45	5129105	8.386	-129.316	266.761	21.195	448.901	484.086	0.236	0.315	9.309	21.195	2.855
2022-08-21 20:00	5130005	8.371	-128.434	254.299	21.139	448.695	484.421	0.236	0.315	9.295	21.139	2.646
2022-08-21 20:15	5130905	8.343	-126.817	266.785	21.112	448.541	484.526	0.236	0.315	9.168	21.112	2.538
2022-08-21 20:30	5131805	8.352	-127.351	269.522	21.096	448.6	484.749	0.236	0.315	9.093	21.096	3.155
2022-08-21 20:45	5132705	8.364	-128.016	271.014	21.103	448.902	484.997	0.236	0.315	8.991	21.103	2.413
2022-08-21 21:00	5133605	8.345	-126.958	266.401	21.115	448.626	484.587	0.236	0.315	8.962	21.115	2.566
2022-08-21 21:15	5134505	8.336	-126.431	272.392	21.13	448.821	484.64	0.236	0.315	9.176	21.13	2.527
2022-08-21 21:30	5135405	8.307	-124.776	271.568	21.138	448.657	484.387	0.236	0.315	8.715	21.138	2.518
2022-08-21 21:45	5136305	8.307	-124.781	269.956	21.144	449.228	484.946	0.236	0.315	8.744	21.144	2.398
2022-08-21 22:00	5137205	8.307	-124.781	259.895	21.152	449.587	485.255	0.236	0.315	8.683	21.152	2.665
2022-08-21 22:15	5138105	8.318	-125.422	269.102	21.166	450.221	485.791	0.236	0.316	8.903	21.166	2.42
2022-08-21 22:30	5139005	8.311	-125.02	272.321	21.179	450.355	485.814	0.236	0.316	8.704	21.179	2.405
2022-08-21 22:45	5139905	8.301	-124.452	273.88	21.179	450.291	485.738	0.236	0.316	8.645	21.179	2.468

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-21 23:00	5140805	8.298	-124.28	268.187	21.17	449.829	485.334	0.236	0.315	8.466	21.17	2.509
2022-08-21 23:15	5141705	8.244	-121.238	273.408	21.156	450.103	485.77	0.236	0.316	8.315	21.156	2.453
2022-08-21 23:30	5142605	8.209	-119.193	272.273	21.111	449.878	485.972	0.237	0.316	8.057	21.111	2.481
2022-08-21 23:45	5143505	8.281	-123.27	268.327	21.077	449.16	485.541	0.236	0.316	8.306	21.077	2.461
2022-08-22 00:00	5144405	8.307	-124.731	260.419	21.021	448.708	485.609	0.236	0.316	8.436	21.021	2.536
2022-08-22 00:15	5145305	8.259	-121.987	268.594	20.985	448.158	485.376	0.236	0.315	8.427	20.985	2.441
2022-08-22 00:30	5146205	8.256	-121.801	271.339	20.945	448.287	485.921	0.237	0.316	8.406	20.945	2.862
2022-08-22 00:45	5147105	8.275	-122.869	272.524	20.906	447.997	486	0.237	0.316	8.191	20.906	2.466
2022-08-22 01:00	5148005	8.291	-123.751	265.707	20.861	447.428	485.832	0.236	0.316	8.101	20.861	2.709
2022-08-22 01:15	5148905	8.263	-122.187	270.614	20.838	446.939	485.538	0.236	0.316	8.253	20.838	2.546
2022-08-22 01:30	5149805	8.221	-119.736	270.89	20.794	446.768	485.793	0.236	0.316	8.130	20.794	2.45
2022-08-22 01:45	5150705	8.215	-119.421	269.45	20.739	446.049	485.569	0.236	0.316	8.159	20.739	2.757
2022-08-22 02:00	5151605	8.286	-123.403	262.329	20.666	445.639	485.857	0.236	0.316	8.010	20.666	2.8
2022-08-22 02:15	5152505	8.291	-123.68	272.195	20.612	444.901	485.597	0.236	0.316	7.851	20.612	2.537
2022-08-22 02:30	5153405	8.254	-121.527	276.66	20.569	444.504	485.604	0.236	0.316	7.824	20.569	2.618
2022-08-22 02:45	5154305	8.258	-121.76	277.576	20.511	444.143	485.8	0.236	0.316	7.929	20.511	2.65
2022-08-22 03:00	5155205	8.249	-121.179	270.614	20.428	443.786	486.248	0.237	0.316	7.847	20.428	2.605
2022-08-22 03:15	5156105	8.266	-122.185	277.116	20.437	443.91	486.294	0.237	0.316	7.721	20.437	2.805
2022-08-22 03:30	5157005	8.192	-117.965	275.656	20.379	435.278	477.419	0.232	0.310	7.459	20.379	2.491
2022-08-22 03:45	5157905	8.203	-118.566	276.295	20.346	443.438	486.699	0.237	0.316	7.433	20.346	2.6
2022-08-22 04:00	5158805	8.204	-118.585	265.65	20.285	443.289	487.166	0.237	0.317	7.150	20.285	2.522
2022-08-22 04:15	5159705	8.205	-118.623	273.241	20.227	442.569	486.963	0.237	0.317	7.251	20.227	2.849
2022-08-22 04:30	5160605	8.188	-117.629	277.614	20.165	442.07	487.044	0.237	0.317	7.211	20.165	2.599
2022-08-22 04:45	5161505	8.195	-118.012	278.689	20.118	441.897	487.339	0.237	0.317	7.141	20.118	2.531
2022-08-22 05:00	5162405	8.198	-118.155	275.06	20.057	441.363	487.376	0.237	0.317	7.090	20.057	2.384
2022-08-22 05:15	5163305	8.189	-117.66	279.824	20.032	441.003	487.236	0.237	0.317	7.284	20.032	2.518
2022-08-22 05:30	5164205	8.191	-117.748	277.809	19.974	440.015	486.739	0.237	0.316	7.551	19.974	2.534
2022-08-22 05:45	5165105	8.218	-119.219	276.21	19.926	439.315	486.459	0.237	0.316	7.656	19.926	2.525
2022-08-22 06:00	5166005	8.239	-120.43	270.023	19.866	439.157	486.903	0.237	0.316	7.618	19.866	2.649
2022-08-22 06:15	5166905	8.230	-119.884	276.567	19.866	439.288	487.05	0.237	0.317	7.723	19.866	2.989
2022-08-22 06:30	5167805	8.216	-119.09	277.857	19.821	438.886	487.068	0.237	0.317	7.812	19.821	2.538
2022-08-22 06:45	5168705	8.222	-119.395	279.426	19.79	438.582	487.051	0.237	0.317	7.768	19.79	2.618
2022-08-22 07:00	5169605	8.267	-121.942	277.099	19.767	438.276	486.949	0.237	0.317	7.758	19.767	3.29
2022-08-22 07:15	5170505	8.266	-121.903	280.475	19.736	437.965	486.921	0.237	0.316	7.876	19.736	2.772
2022-08-22 07:30	5171405	8.251	-121.043	279.593	19.717	437.592	486.706	0.237	0.316	7.860	19.717	2.881
2022-08-22 07:45	5172305	8.264	-121.753	277.514	19.707	437.577	486.786	0.237	0.316	7.693	19.707	2.632
2022-08-22 08:00	5173205	8.286	-122.969	267.119	19.689	437.863	487.299	0.237	0.317	7.925	19.689	2.69
2022-08-22 08:15	5174105	8.267	-121.922	275.895	19.693	438.093	487.508	0.237	0.317	7.928	19.693	2.906
2022-08-22 08:30	5175005	8.284	-122.879	278.644	19.706	438.506	487.835	0.237	0.317	8.033	19.706	2.807
2022-08-22 08:45	5175905	8.285	-122.974	278.742	19.718	438.689	487.917	0.237	0.317	8.085	19.718	2.823
2022-08-22 09:00	5176805	8.294	-123.448	270.635	19.737	438.327	487.315	0.237	0.317	7.916	19.737	2.812
2022-08-22 09:15	5177705	8.280	-122.674	274.455	19.759	438.453	487.221	0.237	0.317	8.031	19.759	2.523
2022-08-22 09:30	5178605	8.278	-122.571	273.844	19.774	438.912	487.584	0.237	0.317	7.981	19.774	2.545
2022-08-22 09:45	5179505	8.276	-122.483	273.048	19.793	439.089	487.579	0.237	0.317	7.655	19.793	2.503
2022-08-22 10:00	5180405	8.259	-121.489	264.503	19.802	439.491	487.936	0.237	0.317	7.706	19.802	2.403
2022-08-22 10:15	5181305	8.269	-122.054	272.345	19.812	439.788	488.16	0.238	0.317	7.550	19.812	2.548
2022-08-22 10:30	5182205	8.264	-121.784	274.44	19.818	440.018	488.348	0.238	0.317	7.367	19.818	2.423
2022-08-22 10:45	5183105	8.234	-120.125	277.144	19.82	439.949	488.257	0.238	0.317	7.165	19.82	2.515

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-22 11:00	5184005	8.242	-120.547	266.928	19.817	439.673	487.976	0.238	0.317	7.088	19.817	3.198
2022-08-22 11:15	5184905	8.223	-119.467	274.424	19.822	439.772	488.039	0.238	0.317	7.038	19.822	2.624
2022-08-22 11:30	5185805	8.233	-120.06	273.351	19.837	439.847	487.962	0.237	0.317	7.071	19.837	2.566
2022-08-22 11:45	5186705	8.222	-119.421	273.182	19.866	440.024	487.868	0.237	0.317	6.848	19.866	2.579
2022-08-22 12:00	5187605	8.209	-118.73	268.816	19.908	440.891	488.391	0.238	0.317	6.913	19.908	2.318
2022-08-22 12:15	5188505	8.208	-118.682	273.487	19.965	441.66	488.653	0.238	0.318	6.840	19.965	2.342
2022-08-22 12:30	5189405	8.205	-118.563	274.898	20.016	442.226	488.755	0.238	0.318	6.825	20.016	2.323
2022-08-22 12:45	5190305	8.192	-117.826	276.36	20.063	442.878	488.992	0.238	0.318	6.703	20.063	2.368
2022-08-22 13:00	5191205	8.225	-119.708	267.922	20.144	442.972	488.255	0.238	0.317	7.047	20.144	2.823
2022-08-22 13:15	5192105	8.214	-119.14	273.306	20.264	444.364	488.556	0.238	0.318	7.108	20.264	2.496
2022-08-22 13:30	5193005	8.216	-119.319	271.813	20.398	446.058	489.041	0.238	0.318	7.419	20.398	2.673
2022-08-22 13:45	5193905	8.248	-121.193	269.713	20.523	446.842	488.624	0.238	0.318	7.327	20.523	2.479
2022-08-22 14:00	5194805	8.269	-122.433	258.385	20.597	447.717	488.828	0.238	0.318	7.479	20.597	2.683
2022-08-22 14:15	5195705	8.258	-121.789	269.26	20.676	448.4	488.771	0.238	0.318	7.606	20.676	2.685
2022-08-22 14:30	5196605	8.288	-123.525	270.604	20.75	448.595	488.226	0.238	0.317	8.419	20.75	2.651
2022-08-22 14:45	5197505	8.281	-123.196	271.594	20.819	448.438	487.358	0.237	0.317	9.141	20.819	2.696
2022-08-22 15:00	5198405	8.307	-124.688	268.332	20.917	448.65	486.595	0.237	0.316	9.284	20.917	2.604
2022-08-22 15:15	5199305	8.308	-124.795	273.926	20.999	447.262	484.27	0.236	0.315	9.192	20.999	2.883
2022-08-22 15:30	5200205	8.316	-125.277	271.427	21.093	449.932	486.218	0.237	0.316	9.297	21.093	2.633
2022-08-22 15:45	5201105	8.254	-121.784	271.301	21.144	450.593	486.42	0.237	0.316	9.127	21.144	2.512
2022-08-22 16:00	5202005	8.312	-125.101	258.366	21.178	451.502	487.052	0.237	0.317	9.056	21.178	2.69
2022-08-22 16:15	5202905	8.267	-122.528	268.346	21.203	451.623	486.937	0.237	0.317	9.004	21.203	2.448
2022-08-22 16:30	5203805	8.264	-122.387	271.749	21.219	451.571	486.725	0.237	0.316	8.930	21.219	2.472
2022-08-22 16:45	5204705	8.296	-124.192	274.064	21.238	451.284	486.216	0.237	0.316	9.219	21.238	2.643
2022-08-22 17:00	5205605	8.349	-127.246	264.434	21.269	451.182	485.802	0.236	0.316	9.388	21.269	2.589
2022-08-22 17:15	5206505	8.354	-127.556	272.733	21.317	451.68	485.861	0.237	0.316	9.646	21.317	2.49
2022-08-22 17:30	5207405	8.323	-125.809	271.63	21.354	452.831	486.73	0.237	0.316	9.309	21.354	2.508
2022-08-22 17:45	5208305	8.318	-125.504	272.388	21.357	452.349	486.175	0.237	0.316	9.316	21.357	2.693
2022-08-22 18:00	5209205	8.397	-130.043	265.545	21.374	450.812	484.355	0.236	0.315	9.706	21.374	2.543
2022-08-22 18:15	5210105	8.351	-127.416	269.024	21.414	451.353	484.542	0.236	0.315	9.942	21.414	2.513
2022-08-22 18:30	5211005	8.332	-126.314	270.192	21.423	451.359	484.459	0.236	0.315	9.868	21.423	2.462
2022-08-22 18:45	5211905	8.412	-130.913	270.299	21.429	451.411	484.45	0.236	0.315	10.331	21.429	2.853
2022-08-22 19:00	5212805	8.392	-129.774	267.817	21.479	454.024	486.762	0.237	0.316	9.738	21.479	4.84
2022-08-22 19:15	5213705	8.364	-128.21	272.044	21.518	455.74	488.208	0.238	0.317	9.397	21.518	2.956
2022-08-22 19:30	5214605	8.336	-126.634	272.454	21.553	458.442	490.753	0.239	0.319	9.027	21.553	3.181
2022-08-22 19:45	5215505	8.315	-125.425	271.618	21.581	458.912	490.97	0.239	0.319	8.507	21.581	3.842
2022-08-22 20:00	5216405	8.290	-124.021	262.155	21.614	459.149	490.897	0.239	0.319	8.788	21.614	3.381
2022-08-22 20:15	5217305	8.291	-124.094	271.684	21.636	459.58	491.133	0.239	0.319	8.842	21.636	2.835
2022-08-22 20:30	5218205	8.339	-126.841	273.012	21.669	458.677	489.839	0.239	0.318	9.511	21.669	2.859
2022-08-22 20:45	5219105	8.335	-126.595	274.297	21.68	458.632	489.681	0.238	0.318	9.600	21.68	2.941
2022-08-22 21:00	5220005	8.327	-126.164	267.216	21.713	458.546	489.262	0.238	0.318	9.205	21.713	3.099
2022-08-22 21:15	5220905	8.319	-125.721	274.724	21.763	458.704	488.929	0.238	0.318	9.337	21.763	2.823
2022-08-22 21:30	5221805	8.298	-124.583	275.49	21.793	459.232	489.2	0.238	0.318	9.076	21.793	2.716
2022-08-22 21:45	5222705	8.219	-120.065	274.367	21.79	459.286	489.28	0.238	0.318	9.170	21.79	2.646
2022-08-22 22:00	5223605	8.301	-124.726	260.55	21.715	457.807	488.449	0.238	0.317	8.837	21.715	2.825
2022-08-22 22:15	5224505	8.287	-123.906	270.511	21.664	455.224	486.203	0.237	0.316	9.241	21.664	2.611
2022-08-22 22:30	5225405	8.271	-122.948	273.174	21.63	455.582	486.927	0.237	0.317	9.458	21.63	2.587
2022-08-22 22:45	5226305	8.249	-121.679	273.518	21.584	454.776	486.521	0.237	0.316	9.251	21.584	2.492

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-22 23:00	5227205	8.319	-125.675	262.932	21.559	455.384	487.415	0.237	0.317	9.309	21.559	2.638
2022-08-22 23:15	5228105	8.299	-124.536	272.843	21.563	455.531	487.538	0.237	0.317	9.213	21.563	2.544
2022-08-22 23:30	5229005	8.298	-124.452	273.911	21.573	456.114	488.066	0.238	0.317	9.241	21.573	2.556
2022-08-22 23:45	5229905	8.289	-123.987	275.315	21.604	456.984	488.681	0.238	0.318	9.020	21.604	2.628
2022-08-23 00:00	5230805	8.260	-122.337	272.173	21.615	458.065	489.728	0.238	0.318	8.771	21.615	2.605
2022-08-23 00:15	5231705	8.267	-122.755	275.356	21.639	458.643	490.105	0.239	0.319	8.451	21.639	2.516
2022-08-23 00:30	5232605	8.247	-121.577	277.728	21.656	459.037	490.356	0.239	0.319	8.458	21.656	2.544
2022-08-23 00:45	5233505	8.236	-120.995	279.14	21.654	459.273	490.629	0.239	0.319	8.370	21.654	2.654
2022-08-23 01:00	5234405	8.251	-121.818	270.859	21.633	458.487	489.997	0.239	0.318	8.349	21.633	2.546
2022-08-23 01:15	5235305	8.204	-119.143	276.381	21.598	458.376	490.229	0.239	0.319	8.359	21.598	2.584
2022-08-23 01:30	5236205	8.197	-118.728	273.42	21.541	457.796	490.179	0.239	0.319	8.275	21.541	2.565
2022-08-23 01:45	5237105	8.229	-120.502	273.015	21.508	457.87	490.59	0.239	0.319	8.331	21.508	2.746
2022-08-23 02:00	5238005	8.243	-121.241	266.895	21.412	456.856	490.466	0.239	0.319	8.177	21.412	2.539
2022-08-23 02:15	5238905	8.239	-121.005	274.159	21.393	457.067	490.887	0.239	0.319	8.024	21.393	2.615
2022-08-23 02:30	5239805	8.199	-118.732	274.693	21.317	456.303	490.826	0.239	0.319	7.710	21.317	2.534
2022-08-23 02:45	5240705	8.246	-121.403	274.822	21.26	455.043	490.05	0.239	0.319	7.832	21.26	2.609
2022-08-23 03:00	5241605	8.250	-121.603	268.926	21.203	455.119	490.705	0.239	0.319	7.803	21.203	2.776
2022-08-23 03:15	5242505	8.195	-118.451	275.549	21.183	454.984	490.761	0.239	0.319	7.597	21.183	2.69
2022-08-23 03:30	5243405	8.189	-118.072	275.835	21.123	454.63	490.99	0.239	0.319	7.424	21.123	2.632
2022-08-23 03:45	5244305	8.186	-117.908	277.371	21.06	454.247	491.214	0.239	0.319	7.226	21.06	2.913
2022-08-23 04:00	5245205	8.192	-118.198	266.692	20.937	453.521	491.675	0.239	0.320	6.990	20.937	2.868
2022-08-23 04:15	5246105	8.177	-117.3	276.024	20.882	452.683	491.325	0.239	0.319	6.984	20.882	2.6
2022-08-23 04:30	5247005	8.167	-116.684	277.645	20.821	452.374	491.614	0.239	0.320	6.923	20.821	4.965
2022-08-23 04:45	5247905	8.193	-118.165	279.109	20.79	451.978	491.496	0.239	0.319	7.069	20.79	2.734
2022-08-23 05:00	5248805	8.188	-117.829	275.344	20.683	451.153	491.695	0.239	0.320	6.905	20.683	2.763
2022-08-23 05:15	5249705	8.173	-116.959	278.742	20.646	450.512	491.375	0.239	0.319	7.013	20.646	3.475
2022-08-23 05:30	5250605	8.144	-115.306	275.919	20.566	449.653	491.254	0.239	0.319	7.113	20.566	4.782
2022-08-23 05:45	5251505	8.158	-116.079	274.889	20.515	449.083	491.16	0.239	0.319	7.047	20.515	4.093
2022-08-23 06:00	5252405	8.210	-118.976	264.549	20.441	448.694	491.495	0.239	0.319	7.111	20.441	3.473
2022-08-23 06:15	5253305	8.187	-117.688	274.302	20.427	448.446	491.361	0.239	0.319	7.258	20.427	3.45
2022-08-23 06:30	5254205	8.170	-116.684	277.788	20.38	447.967	491.317	0.239	0.319	7.216	20.38	5.186
2022-08-23 06:45	5255105	8.181	-117.342	279.137	20.351	447.79	491.431	0.239	0.319	7.455	20.351	3.141
2022-08-23 07:00	5256005	8.208	-118.842	273.895	20.297	447.029	491.153	0.239	0.319	7.339	20.297	3.38
2022-08-23 07:15	5256905	8.201	-118.387	279.159	20.265	446.227	490.594	0.239	0.319	7.392	20.265	2.732
2022-08-23 07:30	5257805	8.235	-120.325	277.085	20.239	445.859	490.462	0.239	0.319	7.573	20.239	2.97
2022-08-23 07:45	5258705	8.197	-118.179	275.94	20.221	445.665	490.431	0.239	0.319	7.555	20.221	3.255
2022-08-23 08:00	5259605	8.248	-121.064	270.046	20.203	445.56	490.501	0.239	0.319	7.827	20.203	2.717
2022-08-23 08:15	5260505	8.271	-122.361	275.788	20.197	445.568	490.572	0.239	0.319	7.937	20.197	2.735
2022-08-23 08:30	5261405	8.281	-122.945	277.476	20.199	445.934	490.958	0.239	0.319	8.078	20.199	2.618
2022-08-23 08:45	5262305	8.286	-123.227	276.455	20.199	445.915	490.934	0.239	0.319	7.971	20.199	2.636
2022-08-23 09:00	5263205	8.293	-123.577	269.689	20.196	445.413	490.407	0.239	0.319	7.864	20.196	2.921
2022-08-23 09:15	5264105	8.272	-122.39	275.151	20.197	445.161	490.124	0.239	0.319	7.951	20.197	2.828
2022-08-23 09:30	5265005	8.305	-124.261	272.598	20.177	444.966	490.118	0.239	0.319	8.125	20.177	2.681
2022-08-23 09:45	5265905	8.314	-124.784	271.878	20.184	445.468	490.596	0.239	0.319	7.802	20.184	2.681
2022-08-23 10:00	5266805	8.279	-122.802	265.874	20.176	445.421	490.625	0.239	0.319	7.623	20.176	2.804
2022-08-23 10:15	5267705	8.291	-123.479	272.016	20.183	445.513	490.653	0.239	0.319	7.632	20.183	2.477
2022-08-23 10:30	5268605	8.271	-122.359	274.462	20.188	445.604	490.701	0.239	0.319	7.602	20.188	2.426
2022-08-23 10:45	5269505	8.278	-122.769	274.226	20.195	445.787	490.832	0.239	0.319	7.749	20.195	2.376

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-23 11:00	5270405	8.254	-121.372	268.413	20.209	446.06	490.993	0.239	0.319	7.440	20.209	2.326
2022-08-23 11:15	5271305	8.239	-120.566	275.075	20.229	446.276	491.018	0.239	0.319	7.196	20.229	2.3
2022-08-23 11:30	5272205	8.209	-118.84	274.176	20.24	446.539	491.199	0.239	0.319	6.994	20.24	2.212
2022-08-23 11:45	5273105	8.194	-118.012	274.402	20.267	446.629	491.019	0.239	0.319	6.992	20.267	2.314
2022-08-23 12:00	5274005	8.205	-118.68	262.243	20.307	447.495	491.559	0.239	0.320	6.970	20.307	2.36
2022-08-23 12:15	5274905	8.201	-118.451	271.82	20.36	448.191	491.771	0.239	0.320	6.806	20.36	2.226
2022-08-23 12:30	5275805	8.193	-118.012	274.259	20.409	448.387	491.48	0.239	0.319	7.193	20.409	2.371
2022-08-23 12:45	5276705	8.209	-118.949	274.443	20.456	448.913	491.572	0.239	0.320	7.093	20.456	2.37
2022-08-23 13:00	5277605	8.241	-120.764	264.687	20.529	448.943	490.858	0.239	0.319	7.116	20.529	2.554
2022-08-23 13:15	5278505	8.240	-120.811	273.287	20.649	449.575	490.318	0.239	0.319	7.816	20.649	2.544
2022-08-23 13:30	5279405	8.280	-123.1	270.151	20.785	450.632	490.091	0.239	0.319	8.070	20.785	2.484
2022-08-23 13:45	5280305	8.273	-122.776	267.019	20.916	451.72	489.936	0.239	0.318	8.483	20.916	2.51
2022-08-23 14:00	5281205	8.297	-124.152	259.296	20.991	452.772	490.321	0.239	0.319	8.299	20.991	2.508
2022-08-23 14:15	5282105	8.337	-126.481	264.096	21.11	454.294	490.761	0.239	0.319	8.468	21.11	2.822
2022-08-23 14:30	5283005	8.350	-127.273	264.415	21.212	456.331	491.925	0.240	0.320	9.039	21.212	2.828
2022-08-23 14:45	5283905	8.390	-129.559	263.44	21.247	455.604	490.786	0.239	0.319	9.343	21.247	2.777
2022-08-23 15:00	5284805	8.369	-128.386	255.71	21.298	455.93	490.621	0.239	0.319	9.151	21.298	2.817
2022-08-23 15:15	5285705	8.412	-130.839	262.055	21.323	455.544	489.958	0.239	0.318	9.340	21.323	2.718
2022-08-23 15:30	5286605	8.406	-130.515	263.449	21.287	454.832	489.548	0.238	0.318	9.491	21.287	2.607
2022-08-23 15:45	5287505	8.364	-128.09	266.415	21.237	455.21	490.457	0.239	0.319	9.213	21.237	2.596
2022-08-23 16:00	5288405	8.337	-126.526	260.145	21.176	455.408	491.292	0.239	0.319	8.888	21.176	2.671
2022-08-23 16:15	5289305	8.352	-127.368	268.59	21.178	454.012	489.77	0.238	0.318	9.351	21.178	2.576
2022-08-23 16:30	5290205	8.366	-128.167	269.357	21.214	454.259	489.669	0.238	0.318	9.497	21.214	2.708
2022-08-23 16:45	5291105	8.360	-127.857	270.65	21.254	454.535	489.566	0.238	0.318	9.710	21.254	2.496
2022-08-23 17:00	5292005	8.356	-127.642	268.85	21.333	454.971	489.235	0.238	0.318	9.305	21.333	2.648
2022-08-23 17:15	5292905	8.333	-126.429	274.858	21.436	455.983	489.289	0.238	0.318	9.194	21.436	2.528
2022-08-23 17:30	5293805	8.283	-123.551	272.536	21.491	457.012	489.842	0.239	0.318	9.095	21.491	2.435
2022-08-23 17:45	5294705	8.301	-124.617	270.335	21.481	456.574	489.475	0.238	0.318	9.102	21.481	2.473
2022-08-23 18:00	5295605	8.338	-126.684	265.333	21.422	455.48	488.893	0.238	0.318	9.870	21.422	2.574
2022-08-23 18:15	5296505	8.329	-126.176	269.493	21.415	454.33	487.727	0.237	0.317	9.587	21.415	2.662
2022-08-23 18:30	5297405	8.394	-129.855	269.541	21.432	454.147	487.363	0.237	0.317	10.354	21.432	2.513
2022-08-23 18:45	5298305	8.434	-132.141	268.423	21.441	453.838	486.934	0.237	0.317	10.250	21.441	2.509
2022-08-23 19:00	5299205	8.413	-130.973	259.282	21.443	454.836	487.994	0.238	0.317	9.975	21.443	2.55
2022-08-23 19:15	5300105	8.342	-126.915	268.087	21.445	454.66	487.784	0.237	0.317	9.989	21.445	2.433
2022-08-23 19:30	5301005	8.384	-129.294	268.239	21.425	453.957	487.222	0.237	0.317	9.987	21.425	2.556
2022-08-23 19:45	5301905	8.405	-130.484	265.049	21.398	453.804	487.331	0.237	0.317	10.150	21.398	2.573
2022-08-23 20:00	5302805	8.385	-129.302	261.897	21.361	453.493	487.365	0.237	0.317	9.961	21.361	2.498
2022-08-23 20:15	5303705	8.381	-129.097	268.745	21.363	453.822	487.703	0.237	0.317	9.835	21.363	2.381
2022-08-23 20:30	5304605	8.369	-128.393	271.932	21.355	453.605	487.552	0.237	0.317	9.815	21.355	2.407
2022-08-23 20:45	5305505	8.380	-129.068	272.576	21.355	453.844	487.807	0.237	0.317	9.827	21.355	2.462
2022-08-23 21:00	5306405	8.394	-129.814	264.434	21.36	453.323	487.194	0.237	0.317	10.050	21.36	2.454
2022-08-23 21:15	5307305	8.396	-129.986	270.168	21.374	452.841	486.542	0.237	0.316	10.348	21.374	2.458
2022-08-23 21:30	5308205	8.397	-129.998	269.214	21.385	453.135	486.742	0.237	0.316	10.306	21.385	2.443
2022-08-23 21:45	5309105	8.387	-129.437	269.798	21.405	454.034	487.512	0.237	0.317	10.009	21.405	2.356
2022-08-23 22:00	5310005	8.360	-127.935	266.346	21.426	454.774	488.095	0.238	0.317	9.613	21.426	2.462
2022-08-23 22:15	5310905	8.365	-128.21	272.021	21.448	455.432	488.578	0.238	0.318	9.664	21.448	2.457
2022-08-23 22:30	5311805	8.351	-127.413	274.011	21.467	456.192	489.2	0.238	0.318	9.605	21.467	5.508
2022-08-23 22:45	5312705	8.280	-123.363	274.846	21.437	458.439	491.912	0.240	0.320	9.211	21.437	2.466

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-23 23:00	5313605	8.349	-127.325	262.982	21.412	457.592	491.263	0.239	0.319	8.923	21.412	2.606
2022-08-23 23:15	5314505	8.281	-123.415	272.059	21.407	457.298	490.995	0.239	0.319	8.881	21.407	2.588
2022-08-23 23:30	5315405	8.257	-122.075	269.973	21.388	457.768	491.689	0.239	0.320	8.724	21.388	2.445
2022-08-23 23:45	5316305	8.205	-119.052	271.799	21.334	457.756	492.222	0.240	0.320	8.212	21.334	2.567
2022-08-24 00:00	5317205	8.280	-123.327	261.599	21.266	457.237	492.354	0.240	0.320	8.313	21.266	2.47
2022-08-24 00:15	5318105	8.207	-119.107	272.078	21.191	456.429	492.241	0.240	0.320	8.223	21.191	2.474
2022-08-24 00:30	5319005	8.210	-119.267	273.904	21.141	456.183	492.487	0.240	0.320	8.180	21.141	2.599
2022-08-24 00:45	5319905	8.224	-120.039	275.745	21.082	455.29	492.121	0.240	0.320	8.191	21.082	2.584
2022-08-24 01:00	5320805	8.275	-122.938	271.413	21.049	454.9	492.034	0.240	0.320	8.189	21.049	2.605
2022-08-24 01:15	5321705	8.262	-122.19	274.545	20.977	453.176	490.898	0.239	0.319	8.308	20.977	2.685
2022-08-24 01:30	5322605	8.251	-121.543	273.976	20.917	452.654	490.935	0.239	0.319	8.230	20.917	2.733
2022-08-24 01:45	5323505	8.248	-121.281	272.555	20.804	451.692	491.044	0.239	0.319	8.043	20.804	2.595
2022-08-24 02:00	5324405	8.239	-120.761	266.144	20.7	451.403	491.797	0.239	0.320	7.878	20.7	2.595
2022-08-24 02:15	5325305	8.241	-120.845	270.902	20.649	450.966	491.844	0.239	0.320	7.955	20.649	2.838
2022-08-24 02:30	5326205	8.259	-121.884	274.228	20.64	451.135	492.115	0.240	0.320	7.913	20.64	2.605
2022-08-24 02:45	5327105	8.242	-120.869	275.845	20.564	450.306	491.995	0.240	0.320	7.855	20.564	2.832
2022-08-24 03:00	5328005	8.266	-122.178	266.918	20.499	449.985	492.313	0.240	0.320	7.741	20.499	3.218
2022-08-24 03:15	5328905	8.238	-120.585	274.522	20.491	449.816	492.209	0.240	0.320	7.683	20.491	3.685
2022-08-24 03:30	5329805	8.210	-118.968	273.847	20.429	449.535	492.534	0.240	0.320	7.398	20.429	3.407
2022-08-24 03:45	5330705	8.192	-117.943	274.462	20.348	448.717	492.47	0.240	0.320	7.658	20.348	3.416
2022-08-24 04:00	5331605	8.224	-119.71	268.821	20.254	447.827	492.469	0.240	0.320	7.550	20.254	3.055
2022-08-24 04:15	5332505	8.218	-119.379	275.783	20.219	447.278	492.221	0.240	0.320	7.885	20.219	3.062
2022-08-24 04:30	5333405	8.216	-119.209	278.854	20.165	446.992	492.467	0.240	0.320	7.941	20.165	2.888
2022-08-24 04:45	5334305	8.234	-120.223	279.447	20.11	446.412	492.398	0.240	0.320	7.768	20.11	2.621
2022-08-24 05:00	5335205	8.280	-122.819	269.946	20.071	445.316	491.598	0.239	0.320	8.088	20.071	4.409
2022-08-24 05:15	5336105	8.293	-123.527	275.933	20.045	444.89	491.399	0.239	0.319	8.124	20.045	2.803
2022-08-24 05:30	5337005	8.319	-124.991	271.818	20	444.815	491.782	0.239	0.320	7.985	20	3.738
2022-08-24 05:45	5337905	8.287	-123.138	271.99	19.967	444.303	491.555	0.239	0.320	8.076	19.967	2.792
2022-08-24 06:00	5338805	8.293	-123.458	262.505	19.877	443.952	492.107	0.240	0.320	7.878	19.877	4.578
2022-08-24 06:15	5339705	8.294	-123.491	271.296	19.864	443.828	492.099	0.240	0.320	8.066	19.864	3.05
2022-08-24 06:30	5340605	8.282	-122.855	274.171	19.857	443.888	492.238	0.240	0.320	8.026	19.857	2.866
2022-08-24 06:45	5341505	8.291	-123.336	274.705	19.858	444.129	492.503	0.240	0.320	8.029	19.858	3.034
2022-08-24 07:00	5342405	8.290	-123.298	265.497	19.815	443.391	492.131	0.240	0.320	7.909	19.815	2.803
2022-08-24 07:15	5343305	8.273	-122.292	275.537	19.809	443.177	491.954	0.239	0.320	7.887	19.809	2.856
2022-08-24 07:30	5344205	8.253	-121.148	276.083	19.777	443.098	492.2	0.240	0.320	7.849	19.777	2.932
2022-08-24 07:45	5345105	8.251	-121.052	273.401	19.755	442.741	492.028	0.240	0.320	7.931	19.755	3.138
2022-08-24 08:00	5346005	8.294	-123.458	261.051	19.749	442.795	492.15	0.240	0.320	8.067	19.749	2.878
2022-08-24 08:15	5346905	8.297	-123.663	272.576	19.749	443.106	492.498	0.240	0.320	8.093	19.749	2.621
2022-08-24 08:30	5347805	8.298	-123.723	275.764	19.764	443.332	492.596	0.240	0.320	8.144	19.764	3.24
2022-08-24 08:45	5348705	8.291	-123.286	277.28	19.78	443.46	492.569	0.240	0.320	7.861	19.78	2.937
2022-08-24 09:00	5349605	8.288	-123.167	273.549	19.797	443.149	492.048	0.240	0.320	7.710	19.797	2.654
2022-08-24 09:15	5350505	8.280	-122.695	276.57	19.814	443.395	492.142	0.240	0.320	7.812	19.814	2.642
2022-08-24 09:30	5351405	8.260	-121.608	275.039	19.835	443.485	492.023	0.240	0.320	7.937	19.835	3.023
2022-08-24 09:45	5352305	8.267	-122.001	274.028	19.86	443.598	491.889	0.239	0.320	7.945	19.86	2.685
2022-08-24 10:00	5353205	8.273	-122.325	266.399	19.882	444.155	492.274	0.240	0.320	7.799	19.882	2.84
2022-08-24 10:15	5354105	8.279	-122.659	274.102	19.902	444.534	492.493	0.240	0.320	7.692	19.902	2.652
2022-08-24 10:30	5355005	8.254	-121.293	276.741	19.93	445.133	492.861	0.240	0.320	7.530	19.93	2.355
2022-08-24 10:45	5355905	8.246	-120.85	277.793	19.961	445.526	492.971	0.240	0.320	7.433	19.961	86.388

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-24 11:00	5356805	8.228	-119.839	270.642	19.992	445.591	492.72	0.240	0.320	7.218	19.992	2.839
2022-08-24 11:15	5357705	8.228	-119.863	277.018	20.019	445.235	492.051	0.240	0.320	7.372	20.019	2.526
2022-08-24 11:30	5358605	8.225	-119.698	274.572	20.058	445.76	492.22	0.240	0.320	7.571	20.058	2.465
2022-08-24 11:45	5359505	8.232	-120.127	272.891	20.1	446.455	492.55	0.240	0.320	7.662	20.1	2.332
2022-08-24 12:00	5360405	8.207	-118.718	270.709	20.121	447.172	493.129	0.240	0.321	7.200	20.121	2.438
2022-08-24 12:15	5361305	8.207	-118.73	273.258	20.167	448.23	493.815	0.240	0.321	6.961	20.167	2.484
2022-08-24 12:30	5362205	8.220	-119.467	273.759	20.206	448.22	493.396	0.240	0.321	7.341	20.206	2.437
2022-08-24 12:45	5363105	8.250	-121.186	273.606	20.242	448.595	493.438	0.240	0.321	7.299	20.242	2.314
2022-08-24 13:00	5364005	8.238	-120.537	268.718	20.271	448.282	492.789	0.240	0.320	7.173	20.271	2.492
2022-08-24 13:15	5364905	8.227	-119.939	273.947	20.33	448.804	492.754	0.240	0.320	7.308	20.33	2.537
2022-08-24 13:30	5365805	8.226	-119.886	274.286	20.418	449.432	492.532	0.240	0.320	7.163	20.418	2.872
2022-08-24 13:45	5366705	8.214	-119.283	274.851	20.533	450.866	492.922	0.240	0.320	7.233	20.533	2.563
2022-08-24 14:00	5367605	8.239	-120.697	267.45	20.643	451.869	492.882	0.240	0.320	7.506	20.643	2.756
2022-08-24 14:15	5368505	8.232	-120.385	272.295	20.729	452.889	493.113	0.240	0.321	7.716	20.729	2.699
2022-08-24 14:30	5369405	8.238	-120.745	274.908	20.819	453.471	492.828	0.240	0.320	7.834	20.819	3.011
2022-08-24 14:45	5370305	8.260	-122.023	273.225	20.899	453.792	492.361	0.240	0.320	8.359	20.899	2.918
2022-08-24 15:00	5371205	8.284	-123.429	266.437	20.995	454.2	491.824	0.239	0.320	8.004	20.995	2.632
2022-08-24 15:15	5372105	8.282	-123.329	273.184	21.076	455.511	492.415	0.240	0.320	7.982	21.076	2.921
2022-08-24 15:30	5373005	8.186	-117.91	271.239	21.129	455.65	492.027	0.240	0.320	8.368	21.129	2.715
2022-08-24 15:45	5373905	8.192	-118.265	270.569	21.146	455.315	491.49	0.239	0.319	8.691	21.146	2.848
2022-08-24 16:00	5374805	8.275	-122.96	264.382	21.098	455.588	492.273	0.240	0.320	8.549	21.098	2.783
2022-08-24 16:15	5375705	8.281	-123.329	270.349	21.128	455.633	492.022	0.240	0.320	8.460	21.128	2.623
2022-08-24 16:30	5376605	8.279	-123.227	272.283	21.141	455.227	491.455	0.239	0.319	8.577	21.141	2.93
2022-08-24 16:45	5377505	8.302	-124.514	272.617	21.161	455.168	491.186	0.239	0.319	8.730	21.161	2.896
2022-08-24 17:00	5378405	8.335	-126.386	265.164	21.195	455.638	491.344	0.239	0.319	8.918	21.195	2.778
2022-08-24 17:15	5379305	8.322	-125.694	274.145	21.224	456.643	492.133	0.240	0.320	8.924	21.224	3.016
2022-08-24 17:30	5380205	8.322	-125.73	271.999	21.263	456.668	491.773	0.239	0.320	8.976	21.263	2.8
2022-08-24 17:45	5381105	8.318	-125.515	271.003	21.306	457.213	491.921	0.240	0.320	8.860	21.306	2.815
2022-08-24 18:00	5382005	8.316	-125.365	266.866	21.326	456.709	491.172	0.239	0.319	8.820	21.326	2.686
2022-08-24 18:15	5382905	8.313	-125.241	271.856	21.359	457.644	491.854	0.240	0.320	8.560	21.359	2.55
2022-08-24 18:30	5383805	8.299	-124.474	272.989	21.392	458.032	491.93	0.240	0.320	8.599	21.392	2.676
2022-08-24 18:45	5384705	8.285	-123.682	273.833	21.41	457.963	491.676	0.239	0.320	8.590	21.41	2.759
2022-08-24 19:00	5385605	8.325	-125.959	266.642	21.424	458.185	491.777	0.239	0.320	8.623	21.424	2.827
2022-08-24 19:15	5386505	8.313	-125.275	273.477	21.429	458.596	492.164	0.240	0.320	8.633	21.429	2.695
2022-08-24 19:30	5387405	8.317	-125.487	272.481	21.418	458.016	491.656	0.239	0.320	8.893	21.418	2.748
2022-08-24 19:45	5388305	8.338	-126.693	272.052	21.392	457.454	491.309	0.239	0.319	9.148	21.392	2.722
2022-08-24 20:00	5389205	8.359	-127.861	257.913	21.347	456.595	490.84	0.239	0.319	9.287	21.347	2.826
2022-08-24 20:15	5390105	8.317	-125.449	270.738	21.319	456.137	490.632	0.239	0.319	9.013	21.319	2.618
2022-08-24 20:30	5391005	8.306	-124.819	273.549	21.295	456.099	490.829	0.239	0.319	9.111	21.295	2.589
2022-08-24 20:45	5391905	8.292	-124.023	274.326	21.281	457.369	492.343	0.240	0.320	9.004	21.281	2.576
2022-08-24 21:00	5392805	8.316	-125.36	266.096	21.266	456.908	491.993	0.240	0.320	8.817	21.266	2.654
2022-08-24 21:15	5393705	8.289	-123.806	274.648	21.255	457.26	492.484	0.240	0.320	8.503	21.255	2.578
2022-08-24 21:30	5394605	8.276	-123.103	275.547	21.256	457.665	492.913	0.240	0.320	8.354	21.256	2.55
2022-08-24 21:45	5395505	8.286	-123.625	275.287	21.26	457.759	492.969	0.240	0.320	8.503	21.26	2.544
2022-08-24 22:00	5396405	8.252	-121.691	273.616	21.262	458.874	494.149	0.241	0.321	8.249	21.262	2.556
2022-08-24 22:15	5397305	8.241	-121.107	277.411	21.265	459.384	494.677	0.241	0.322	8.094	21.265	2.541
2022-08-24 22:30	5398205	8.221	-119.963	278.78	21.257	459.282	494.648	0.241	0.322	8.009	21.257	2.538
2022-08-24 22:45	5399105	8.240	-121.052	277.483	21.247	459.138	494.59	0.241	0.321	7.939	21.247	2.494

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-24 23:00	5400005	8.258	-122.039	272.042	21.204	458.065	493.87	0.241	0.321	7.817	21.204	2.717
2022-08-24 23:15	5400905	8.222	-119.979	276.221	21.176	458.003	494.095	0.241	0.321	7.874	21.176	2.778
2022-08-24 23:30	5401805	8.205	-119.014	275.242	21.142	457.811	494.228	0.241	0.321	7.946	21.142	2.812
2022-08-24 23:45	5402705	8.260	-122.113	273.446	21.094	457.491	494.373	0.241	0.321	7.964	21.094	2.668
2022-08-25 00:00	5403605	8.227	-120.165	270.573	21.01	456.914	494.606	0.241	0.321	7.895	21.01	2.64
2022-08-25 00:15	5404505	8.228	-120.225	276.064	20.976	456.213	494.196	0.241	0.321	7.741	20.976	2.724
2022-08-25 00:30	5405405	8.268	-122.447	278.932	20.883	453.985	492.727	0.240	0.320	8.259	20.883	2.804
2022-08-25 00:45	5406305	8.250	-121.4	279.838	20.799	452.752	492.253	0.240	0.320	8.280	20.799	3.16
2022-08-25 01:00	5407205	8.266	-122.318	268.373	20.731	452.526	492.703	0.240	0.320	8.094	20.731	3.106
2022-08-25 01:15	5408105	8.235	-120.535	277.502	20.702	452.347	492.807	0.240	0.320	7.925	20.702	2.806
2022-08-25 01:30	5409005	8.209	-119.026	276.946	20.647	452.013	493.003	0.240	0.320	7.797	20.647	6.604
2022-08-25 01:45	5409905	8.204	-118.742	278.126	20.589	451.966	493.552	0.240	0.321	7.600	20.589	2.95
2022-08-25 02:00	5410805	8.196	-118.253	272.001	20.524	451.906	494.153	0.241	0.321	7.505	20.524	2.806
2022-08-25 02:15	5411705	8.213	-119.205	277.814	20.48	451.485	494.15	0.241	0.321	7.484	20.48	2.782
2022-08-25 02:30	5412605	8.184	-117.538	280.315	20.44	451.378	494.441	0.241	0.321	7.426	20.44	3.005
2022-08-25 02:45	5413505	8.178	-117.142	282.113	20.372	451.078	494.822	0.241	0.322	7.535	20.372	2.938
2022-08-25 03:00	5414405	8.222	-119.648	277.046	20.335	450.785	494.879	0.241	0.322	7.467	20.335	2.845
2022-08-25 03:15	5415305	8.203	-118.544	280.823	20.29	450.46	494.995	0.241	0.322	7.582	20.29	2.827
2022-08-25 03:30	5416205	8.242	-120.726	279.113	20.273	450.303	494.99	0.241	0.322	7.303	20.273	2.799
2022-08-25 03:45	5417105	8.242	-120.718	277.604	20.193	449.381	494.81	0.241	0.322	7.688	20.193	3.096
2022-08-25 04:00	5418005	8.256	-121.458	265.211	20.118	448.876	495.038	0.241	0.322	7.681	20.118	2.904
2022-08-25 04:15	5418905	8.239	-120.521	276.558	20.126	448.754	494.823	0.241	0.322	7.612	20.126	2.744
2022-08-25 04:30	5419805	8.225	-119.712	280.332	20.077	448.354	494.893	0.241	0.322	7.702	20.077	3.083
2022-08-25 04:45	5420705	8.213	-119.028	280.711	20.041	448.082	494.964	0.241	0.322	7.580	20.041	4.107
2022-08-25 05:00	5421605	8.232	-120.044	273.37	19.983	447.327	494.733	0.241	0.322	7.889	19.983	3.436
2022-08-25 05:15	5422505	8.217	-119.224	278.384	19.954	446.887	494.551	0.241	0.321	7.790	19.954	2.92
2022-08-25 05:30	5423405	8.269	-122.113	275.838	19.928	446.39	494.271	0.241	0.321	8.021	19.928	2.947
2022-08-25 05:45	5424305	8.284	-122.981	277.452	19.909	445.692	493.695	0.240	0.321	7.662	19.909	2.789
2022-08-25 06:00	5425205	8.254	-121.269	268.265	19.843	446.046	494.78	0.241	0.322	7.924	19.843	2.925
2022-08-25 06:15	5426105	8.252	-121.14	276.88	19.84	446.102	494.88	0.241	0.322	7.752	19.84	3.132
2022-08-25 06:30	5427005	8.241	-120.487	280.511	19.812	445.882	494.924	0.241	0.322	7.510	19.812	2.734
2022-08-25 06:45	5427905	8.219	-119.212	281.891	19.781	445.588	494.923	0.241	0.322	7.716	19.781	2.885
2022-08-25 07:00	5428805	8.244	-120.649	276.281	19.721	445.134	495.053	0.241	0.322	7.675	19.721	3.35
2022-08-25 07:15	5429705	8.232	-119.953	281.615	19.717	444.919	494.848	0.241	0.322	7.831	19.717	3.114
2022-08-25 07:30	5430605	8.227	-119.684	280.42	19.698	444.871	494.996	0.241	0.322	7.835	19.698	2.905
2022-08-25 07:45	5431505	8.218	-119.119	279.414	19.667	444.66	495.09	0.241	0.322	7.516	19.667	2.886
2022-08-25 08:00	5432405	8.265	-121.777	268.628	19.6	444.027	495.088	0.241	0.322	7.821	19.6	3.017
2022-08-25 08:15	5433305	8.252	-121.019	277.876	19.599	444.062	495.138	0.241	0.322	7.802	19.599	3.045
2022-08-25 08:30	5434205	8.242	-120.454	280.53	19.589	444.09	495.278	0.241	0.322	7.788	19.589	3.184
2022-08-25 08:45	5435105	8.254	-121.169	280.828	19.594	444.046	495.172	0.241	0.322	7.732	19.594	2.816
2022-08-25 09:00	5436005	8.255	-121.21	276.057	19.58	443.7	494.932	0.241	0.322	7.560	19.58	3
2022-08-25 09:15	5436905	8.244	-120.566	280.26	19.57	443.492	494.808	0.241	0.322	7.795	19.57	2.931
2022-08-25 09:30	5437805	8.260	-121.503	277.302	19.578	443.586	494.831	0.241	0.322	7.782	19.578	2.671
2022-08-25 09:45	5438705	8.253	-121.064	276.579	19.583	443.978	495.213	0.241	0.322	7.542	19.583	2.665
2022-08-25 10:00	5439605	8.256	-121.222	265.288	19.571	443.893	495.244	0.241	0.322	7.550	19.571	2.86
2022-08-25 10:15	5440505	8.245	-120.611	274.677	19.575	444.284	495.639	0.241	0.322	7.582	19.575	2.781
2022-08-25 10:30	5441405	8.249	-120.876	276.312	19.586	444.588	495.868	0.241	0.322	7.642	19.586	2.679
2022-08-25 10:45	5442305	8.250	-120.938	277.719	19.595	444.627	495.808	0.241	0.322	7.320	19.595	2.501

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-25 11:00	5443205	8.206	-118.403	269.915	19.603	444.649	495.749	0.241	0.322	6.968	19.603	2.378
2022-08-25 11:15	5444105	8.200	-118.117	278.112	19.611	444.832	495.869	0.241	0.322	6.762	19.611	2.439
2022-08-25 11:30	5445005	8.175	-116.675	277.824	19.618	445.016	496.005	0.242	0.322	6.725	19.618	2.347
2022-08-25 11:45	5445905	8.155	-115.54	277.07	19.637	445.242	496.054	0.242	0.322	***6.431***	19.637	2.43
2022-08-25 12:00	5446805	8.142	-114.813	270.056	19.683	445.883	496.283	0.242	0.323	***6.479***	19.683	2.437
2022-08-25 12:15	5447705	8.155	-115.604	276.062	19.754	446.631	496.371	0.242	0.323	6.519	19.754	2.555
2022-08-25 12:30	5448605	8.150	-115.373	279.011	19.82	447.312	496.429	0.242	0.323	6.648	19.82	2.424
2022-08-25 12:45	5449505	8.160	-115.91	279.779	19.869	447.836	496.498	0.242	0.323	6.819	19.869	2.636
2022-08-25 13:00	5450405	8.188	-117.583	275.196	19.963	447.889	495.57	0.241	0.322	7.113	19.963	2.678
2022-08-25 13:15	5451305	8.195	-118.015	279.86	20.131	449.273	495.343	0.241	0.322	7.556	20.131	2.685
2022-08-25 13:30	5452205	8.217	-119.326	276.081	20.299	450.991	495.478	0.241	0.322	7.628	20.299	2.896
2022-08-25 13:45	5453105	8.232	-120.258	274.727	20.46	452.34	495.287	0.241	0.322	8.081	20.46	3.032
2022-08-25 14:00	5454005	8.262	-121.996	267.805	20.551	453.058	495.131	0.241	0.322	8.173	20.551	3.267
2022-08-25 14:15	5454905	8.253	-121.531	274.195	20.665	453.933	494.912	0.241	0.322	8.655	20.665	2.965
2022-08-25 14:30	5455805	8.263	-122.139	272.981	20.746	454.69	494.903	0.241	0.322	8.572	20.746	2.809
2022-08-25 14:45	5456705	8.258	-121.88	275.127	20.813	454.859	494.402	0.241	0.321	9.143	20.813	3.313
2022-08-25 15:00	5457605	8.290	-123.715	267.5	20.892	454.206	492.877	0.240	0.320	9.128	20.892	3.078
2022-08-25 15:15	5458505	8.281	-123.272	275.077	20.994	454.191	491.818	0.239	0.320	9.410	20.994	3.319
2022-08-25 15:30	5459405	8.277	-123.041	272.729	21.059	455.685	492.779	0.240	0.320	9.518	21.059	2.93
2022-08-25 15:45	5460305	8.278	-123.155	273.654	21.109	457.232	493.944	0.241	0.321	9.287	21.109	3.43
2022-08-25 16:00	5461205	8.205	-119.009	272.469	21.11	458.835	495.658	0.241	0.322	8.880	21.11	2.941
2022-08-25 16:15	5462105	8.280	-123.286	277.304	21.153	458.635	495.002	0.241	0.322	8.808	21.153	3.709
2022-08-25 16:30	5463005	8.297	-124.271	277.43	21.222	458.327	493.972	0.241	0.321	8.735	21.222	3.059
2022-08-25 16:45	5463905	8.294	-124.106	277.077	21.269	458.755	493.96	0.241	0.321	9.040	21.269	2.91
2022-08-25 17:00	5464805	8.352	-127.437	266.911	21.31	458.629	493.399	0.240	0.321	10.114	21.31	3.353
2022-08-25 17:15	5465705	8.324	-125.847	274.34	21.352	455.851	489.989	0.239	0.318	10.535	21.352	3.488
2022-08-25 17:30	5466605	8.318	-125.535	272.381	21.428	458.246	491.799	0.239	0.320	10.494	21.428	3.336
2022-08-25 17:45	5467505	8.253	-121.87	273.289	21.467	459.247	492.479	0.240	0.320	10.019	21.467	3.282
2022-08-25 18:00	5468405	8.383	-129.259	257.842	21.43	458.502	492.056	0.240	0.320	10.051	21.43	3.631
2022-08-25 18:15	5469305	8.321	-125.723	268.799	21.45	458.379	491.724	0.239	0.320	9.994	21.45	3.313
2022-08-25 18:30	5470205	8.317	-125.513	272.133	21.473	458.345	491.45	0.239	0.319	10.202	21.473	3.159
2022-08-25 18:45	5471105	8.336	-126.581	273.084	21.476	458.157	491.222	0.239	0.319	10.043	21.476	2.864
2022-08-25 19:00	5472005	8.382	-129.23	269.324	21.478	458.315	491.365	0.239	0.319	10.281	21.478	2.888
2022-08-25 19:15	5472905	8.307	-124.953	275.706	21.473	458.589	491.714	0.239	0.320	10.020	21.473	2.979
2022-08-25 19:30	5473805	8.324	-125.88	274.896	21.461	458.795	492.052	0.240	0.320	10.101	21.461	2.961
2022-08-25 19:45	5474705	8.312	-125.175	273.542	21.425	458.48	492.085	0.240	0.320	9.936	21.425	2.985
2022-08-25 20:00	5475605	8.352	-127.475	265.693	21.388	458.007	491.943	0.240	0.320	10.035	21.388	2.902
2022-08-25 20:15	5476505	8.324	-125.883	273.191	21.379	457.793	491.806	0.240	0.320	9.835	21.379	2.781
2022-08-25 20:30	5477405	8.321	-125.668	275.888	21.372	458.374	492.499	0.240	0.320	9.782	21.372	2.691
2022-08-25 20:45	5478305	8.347	-127.149	277.623	21.375	458.989	493.129	0.240	0.321	9.786	21.375	2.842
2022-08-25 21:00	5479205	8.332	-126.345	274.898	21.387	458.445	492.425	0.240	0.320	9.642	21.387	2.886
2022-08-25 21:15	5480105	8.322	-125.756	279.071	21.404	458.132	491.92	0.240	0.320	9.665	21.404	2.784
2022-08-25 21:30	5481005	8.296	-124.292	277.018	21.407	458.648	492.442	0.240	0.320	9.425	21.407	2.656
2022-08-25 21:45	5481905	8.273	-122.96	277.454	21.414	458.471	492.18	0.240	0.320	9.075	21.414	2.751
2022-08-25 22:00	5482805	8.247	-121.503	271.086	21.413	459.692	493.507	0.240	0.321	9.041	21.413	2.697
2022-08-25 22:15	5483705	8.261	-122.306	276.844	21.418	460.231	494.034	0.241	0.321	8.937	21.418	2.864
2022-08-25 22:30	5484605	8.233	-120.707	279.738	21.422	460.575	494.362	0.241	0.321	8.662	21.422	2.627
2022-08-25 22:45	5485505	8.226	-120.316	281.681	21.426	460.531	494.268	0.241	0.321	8.597	21.426	2.56

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-25 23:00	5486405	8.215	-119.691	275.153	21.43	460.439	494.138	0.241	0.321	8.358	21.43	3.502
2022-08-25 23:15	5487305	8.210	-119.383	280.616	21.441	460.494	494.085	0.241	0.321	8.264	21.441	2.662
2022-08-25 23:30	5488205	8.182	-117.812	278.041	21.444	460.646	494.212	0.241	0.321	8.091	21.444	2.553
2022-08-25 23:45	5489105	8.140	-115.399	278.298	21.443	460.786	494.376	0.241	0.321	8.003	21.443	2.481
2022-08-26 00:00	5490005	8.110	-113.702	276.286	21.413	461.216	495.136	0.241	0.322	7.887	21.413	2.471
2022-08-26 00:15	5490905	8.149	-115.907	279.597	21.408	461.75	495.765	0.241	0.322	7.949	21.408	2.444
2022-08-26 00:30	5491805	8.143	-115.583	281.722	21.403	462.067	496.151	0.242	0.322	7.795	21.403	2.471
2022-08-26 00:45	5492705	8.160	-116.518	282.907	21.411	462.115	496.124	0.242	0.322	7.698	21.411	2.902
2022-08-26 01:00	5493605	8.200	-118.823	272.721	21.413	461.343	495.276	0.241	0.322	7.828	21.413	2.767
2022-08-26 01:15	5494505	8.104	-113.327	279.805	21.384	461.437	495.672	0.241	0.322	7.701	21.384	2.93
2022-08-26 01:30	5495405	8.121	-114.295	278.961	21.365	461.639	496.082	0.242	0.322	7.901	21.365	2.837
2022-08-26 01:45	5496305	8.130	-114.825	279.102	21.332	461.662	496.445	0.242	0.323	8.052	21.332	2.813
2022-08-26 02:00	5497205	8.184	-117.843	273.725	21.252	460.904	496.441	0.242	0.323	7.974	21.252	2.791
2022-08-26 02:15	5498105	8.178	-117.483	278.196	21.236	461.643	497.401	0.242	0.323	7.782	21.236	2.716
2022-08-26 02:30	5499005	8.181	-117.648	279.142	21.132	459.803	496.486	0.242	0.323	7.422	21.132	2.894
2022-08-26 02:45	5499905	8.214	-119.472	277.797	21.094	459.621	496.679	0.242	0.323	7.799	21.094	2.806
2022-08-26 03:00	5500805	8.229	-120.327	266.055	21.022	459.275	497.035	0.242	0.323	7.599	21.022	2.908
2022-08-26 03:15	5501705	8.172	-117.04	253.545	20.961	458.83	497.186	0.242	0.323	7.641	20.961	3.266
2022-08-26 03:30	5502605	8.145	-115.476	269.303	20.911	458.468	497.303	0.242	0.323	7.688	20.911	2.968
2022-08-26 03:45	5503505	8.124	-114.264	275.349	20.876	458.456	497.659	0.242	0.323	7.485	20.876	2.91
2022-08-26 04:00	5504405	8.164	-116.513	272.526	20.786	457.242	497.267	0.242	0.323	7.058	20.786	2.869
2022-08-26 04:15	5505305	8.153	-115.888	277.929	20.724	456.478	497.072	0.242	0.323	7.252	20.724	2.662
2022-08-26 04:30	5506205	8.167	-116.622	279.223	20.677	456.21	497.264	0.242	0.323	7.356	20.677	2.697
2022-08-26 04:45	5507105	8.153	-115.798	279.166	20.597	455.824	497.681	0.242	0.323	7.367	20.597	2.795
2022-08-26 05:00	5508005	8.200	-118.458	271.212	20.584	455.741	497.718	0.242	0.324	7.209	20.584	13.066
2022-08-26 05:15	5508905	8.120	-113.935	280.327	20.538	455.124	497.526	0.242	0.323	7.156	20.538	2.872
2022-08-26 05:30	5509805	8.123	-114.071	279.347	20.522	454.972	497.529	0.242	0.323	7.168	20.522	2.909
2022-08-26 05:45	5510705	8.159	-116.098	278.913	20.475	454.616	497.619	0.242	0.323	6.917	20.475	2.872
2022-08-26 06:00	5511605	8.158	-116.017	273.923	20.367	453.311	497.321	0.242	0.323	6.928	20.367	3.182
2022-08-26 06:15	5512505	8.168	-116.599	280.515	20.366	453.511	497.544	0.242	0.323	7.003	20.366	3.278
2022-08-26 06:30	5513405	8.136	-114.772	281.672	20.314	452.786	497.294	0.242	0.323	6.983	20.314	2.854
2022-08-26 06:45	5514305	8.170	-116.646	282.101	20.239	452.177	497.411	0.242	0.323	7.003	20.239	3.29
2022-08-26 07:00	5515205	8.174	-116.844	275.964	20.217	452.133	497.595	0.242	0.323	7.008	20.217	4.335
2022-08-26 07:15	5516105	8.131	-114.436	282.451	20.195	457.207	503.406	0.245	0.327	6.860	20.195	3.295
2022-08-26 07:30	5517005	8.153	-115.628	281.386	20.141	451.292	497.462	0.242	0.323	7.010	20.141	3.287
2022-08-26 07:45	5517905	8.135	-114.624	279.712	20.124	451.115	497.445	0.242	0.323	7.003	20.124	3.098
2022-08-26 08:00	5518805	8.161	-116.062	268.997	20.048	450.402	497.454	0.242	0.323	6.939	20.048	2.934
2022-08-26 08:15	5519705	8.133	-114.496	280.031	20.035	450.065	497.213	0.242	0.323	6.762	20.035	3.117
2022-08-26 08:30	5520605	8.166	-116.308	283.586	19.973	449.133	496.832	0.242	0.323	6.976	19.973	3.167
2022-08-26 08:45	5521505	8.164	-116.172	282.721	19.948	448.843	496.781	0.242	0.323	7.067	19.948	2.935
2022-08-26 09:00	5522405	8.179	-117.023	275.299	19.937	449.227	497.323	0.242	0.323	6.933	19.937	3.131
2022-08-26 09:15	5523305	8.167	-116.329	282.399	19.91	448.817	497.149	0.242	0.323	6.888	19.91	2.716
2022-08-26 09:30	5524205	8.167	-116.351	282.482	19.891	448.385	496.868	0.242	0.323	6.979	19.891	3.08
2022-08-26 09:45	5525105	8.198	-118.103	280.532	19.877	448.313	496.934	0.242	0.323	7.272	19.877	2.901
2022-08-26 10:00	5526005	8.239	-120.378	271.734	19.859	447.945	496.715	0.242	0.323	7.456	19.859	2.945
2022-08-26 10:15	5526905	8.219	-119.281	280.451	19.862	448.021	496.771	0.242	0.323	7.514	19.862	3.006
2022-08-26 10:30	5527805	8.266	-121.908	280.501	19.869	448.023	496.7	0.242	0.323	7.913	19.869	3.233
2022-08-26 10:45	5528705	8.272	-122.292	281.152	19.883	447.794	496.302	0.242	0.323	7.816	19.883	3.309

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-26 11:00	5529605	8.257	-121.46	272.853	19.897	447.811	496.172	0.242	0.323	7.714	19.897	3.118
2022-08-26 11:15	5530505	8.268	-122.07	279.485	19.917	447.864	496.023	0.242	0.322	7.762	19.917	3.045
2022-08-26 11:30	5531405	8.282	-122.845	275.618	19.938	447.889	495.831	0.241	0.322	7.864	19.938	3.348
2022-08-26 11:45	5532305	8.288	-123.224	275.549	19.958	447.931	495.66	0.241	0.322	8.032	19.958	3.472
2022-08-26 12:00	5533205	8.274	-122.454	266.895	19.991	448.351	495.785	0.241	0.322	7.970	19.991	3.602
2022-08-26 12:15	5534105	8.269	-122.178	276.915	19.992	448.419	495.848	0.241	0.322	7.865	19.992	3.833
2022-08-26 12:30	5535005	8.282	-122.912	279.385	19.995	448.718	496.152	0.242	0.322	7.960	19.995	3.731
2022-08-26 12:45	5535905	8.281	-122.833	281.123	19.993	448.892	496.364	0.242	0.323	7.913	19.993	3.924
2022-08-26 13:00	5536805	8.273	-122.414	274.586	20.012	449.034	496.322	0.242	0.323	7.903	20.012	3.868
2022-08-26 13:15	5537705	8.302	-124.071	278.403	20.052	449.076	495.942	0.242	0.322	8.156	20.052	4.85
2022-08-26 13:30	5538605	8.311	-124.555	276.343	20.102	449.59	495.989	0.242	0.322	8.205	20.102	3.593
2022-08-26 13:45	5539505	8.319	-125.046	274.028	20.163	450.035	495.848	0.241	0.322	8.245	20.163	4.224
2022-08-26 14:00	5540405	8.306	-124.347	263.07	20.194	450.533	496.067	0.242	0.322	8.280	20.194	3.259
2022-08-26 14:15	5541305	8.329	-125.668	272.757	20.227	450.667	495.872	0.241	0.322	8.459	20.227	3.712
2022-08-26 14:30	5542205	8.313	-124.784	276.088	20.252	451.05	496.034	0.242	0.322	8.440	20.252	3.908
2022-08-26 14:45	5543105	8.309	-124.567	276.889	20.266	451.249	496.108	0.242	0.322	7.702	20.266	3.887
2022-08-26 15:00	5544005	8.295	-123.739	271.324	20.3	451.426	495.946	0.242	0.322	8.387	20.3	4.18
2022-08-26 15:15	5544905	8.310	-124.636	277.328	20.379	452.107	495.872	0.241	0.322	8.502	20.379	3.56
2022-08-26 15:30	5545805	8.319	-125.148	275.401	20.4	452.379	495.952	0.242	0.322	8.618	20.4	3.902
2022-08-26 15:45	5546705	8.335	-126.097	273.942	20.454	452.956	496.025	0.242	0.322	8.796	20.454	4.16
2022-08-26 16:00	5547605	8.319	-125.208	265.185	20.486	453.821	496.638	0.242	0.323	8.669	20.486	4.37
2022-08-26 16:15	5548505	8.320	-125.232	274.56	20.487	454.075	496.911	0.242	0.323	8.619	20.487	4.088
2022-08-26 16:30	5549405	8.322	-125.389	276.994	20.517	454.533	497.092	0.242	0.323	8.639	20.517	4.264
2022-08-26 16:45	5550305	8.331	-125.947	277.528	20.579	455.19	497.168	0.242	0.323	8.753	20.579	3.983
2022-08-26 17:00	5551205	8.326	-125.67	268.847	20.64	455.649	497.044	0.242	0.323	8.815	20.64	5.027
2022-08-26 17:15	5552105	8.341	-126.55	276.074	20.72	456.61	497.264	0.242	0.323	8.800	20.72	4.33
2022-08-26 17:30	5553005	8.354	-127.311	275.094	20.755	456.746	497.05	0.242	0.323	8.946	20.755	4.313
2022-08-26 17:45	5553905	8.346	-126.853	275.22	20.758	456.76	497.029	0.242	0.323	9.011	20.758	4.033
2022-08-26 18:00	5554805	8.332	-126.078	268.58	20.788	457.793	497.842	0.243	0.324	8.903	20.788	3.858
2022-08-26 18:15	5555705	8.345	-126.827	274.81	20.825	457.975	497.664	0.242	0.323	8.997	20.825	3.964
2022-08-26 18:30	5556605	8.346	-126.908	277.278	20.851	458.08	497.507	0.242	0.323	9.005	20.851	3.903
2022-08-26 18:45	5557505	8.352	-127.199	277.299	20.835	458.079	497.67	0.242	0.323	8.981	20.835	4.816
2022-08-26 19:00	5558405	8.347	-126.953	269.424	20.823	458.078	497.797	0.242	0.324	9.031	20.823	4.361
2022-08-26 19:15	5559305	8.343	-126.722	277.516	20.811	458.234	498.086	0.243	0.324	8.909	20.811	3.934
2022-08-26 19:30	5560205	8.336	-126.312	277.564	20.787	458.158	498.248	0.243	0.324	8.812	20.787	3.401
2022-08-26 19:45	5561105	8.335	-126.224	277.898	20.759	458.08	498.461	0.243	0.324	8.744	20.759	3.727
2022-08-26 20:00	5562005	8.309	-124.729	275.461	20.717	458.059	498.865	0.243	0.324	8.512	20.717	3.631
2022-08-26 20:15	5562905	8.313	-124.974	281.414	20.702	458.262	499.247	0.243	0.325	8.514	20.702	3.329
2022-08-26 20:30	5563805	8.269	-122.449	284.595	20.678	457.817	499.007	0.243	0.324	8.417	20.678	3.322
2022-08-26 20:45	5564705	8.289	-123.591	283.25	20.672	457.84	499.094	0.243	0.324	8.272	20.672	3.502
2022-08-26 21:00	5565605	8.295	-123.904	274.657	20.621	456.989	498.699	0.243	0.324	8.513	20.621	3.636
2022-08-26 21:15	5566505	8.289	-123.546	281.469	20.632	456.932	498.525	0.243	0.324	8.500	20.632	3.079
2022-08-26 21:30	5567405	8.281	-123.105	280.868	20.624	457.098	498.783	0.243	0.324	8.441	20.624	3.052
2022-08-26 21:45	5568305	8.285	-123.324	278.844	20.621	457.209	498.935	0.243	0.324	8.237	20.621	2.916
2022-08-26 22:00	5569205	8.275	-122.736	270.943	20.617	457.713	499.536	0.243	0.325	8.071	20.617	3.383
2022-08-26 22:15	5570105	8.268	-122.359	278.749	20.611	458.21	500.132	0.244	0.325	7.910	20.611	2.787
2022-08-26 22:30	5571005	8.226	-119.948	281.426	20.566	457.464	499.788	0.243	0.325	7.912	20.566	3.1
2022-08-26 22:45	5571905	8.293	-123.72	281.29	20.529	456.694	499.338	0.243	0.325	8.051	20.529	3.205

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-26 23:00	5572805	8.296	-123.899	268.318	20.473	456.161	499.339	0.243	0.325	8.041	20.473	3.252
2022-08-26 23:15	5573705	8.286	-123.281	279.624	20.436	455.732	499.257	0.243	0.325	8.001	20.436	3.448
2022-08-26 23:30	5574605	8.261	-121.87	277.716	20.372	454.844	498.95	0.243	0.324	8.110	20.372	3.319
2022-08-26 23:45	5575505	8.283	-123.081	277.962	20.319	454.515	499.139	0.243	0.324	8.018	20.319	12.375
2022-08-27 00:00	5576405	8.290	-123.489	269.305	20.275	454.519	499.603	0.243	0.325	7.889	20.275	3.383
2022-08-27 00:15	5577305	8.258	-121.62	279.991	20.246	454.314	499.692	0.243	0.325	7.780	20.246	3.287
2022-08-27 00:30	5578205	8.256	-121.503	282.706	20.219	454.204	499.85	0.243	0.325	7.778	20.219	3.445
2022-08-27 00:45	5579105	8.266	-122.089	283.312	20.203	454.171	499.979	0.244	0.325	7.903	20.203	3.17
2022-08-27 01:00	5580005	8.251	-121.238	280.01	20.192	453.532	499.395	0.243	0.325	7.769	20.192	3.222
2022-08-27 01:15	5580905	8.246	-120.938	284.607	20.18	453.487	499.468	0.243	0.325	7.608	20.18	3.086
2022-08-27 01:30	5581805	8.239	-120.513	283.751	20.169	453.209	499.282	0.243	0.325	8.022	20.169	2.816
2022-08-27 01:45	5582705	8.228	-119.891	281.755	20.156	453.32	499.533	0.243	0.325	7.679	20.156	3.055
2022-08-27 02:00	5583605	8.241	-120.621	268.182	20.162	453.861	500.072	0.244	0.325	7.456	20.162	2.972
2022-08-27 02:15	5584505	8.225	-119.72	279.888	20.162	454.599	500.879	0.244	0.326	7.285	20.162	3.01
2022-08-27 02:30	5585405	8.220	-119.472	282.151	20.162	454.664	500.956	0.244	0.326	7.429	20.162	2.987
2022-08-27 02:45	5586305	8.217	-119.288	283.689	20.177	454.785	500.933	0.244	0.326	7.719	20.177	3.385
2022-08-27 03:00	5587205	8.252	-121.269	278.837	20.158	453.964	500.229	0.244	0.325	7.861	20.158	3.747
2022-08-27 03:15	5588105	8.213	-119.019	283.801	20.145	453.859	500.244	0.244	0.325	7.676	20.145	3.715
2022-08-27 03:30	5589005	8.233	-120.173	282.113	20.127	454.059	500.658	0.244	0.325	7.593	20.127	3.358
2022-08-27 03:45	5589905	8.236	-120.342	281.491	20.142	454.551	501.037	0.244	0.326	7.413	20.142	3.114
2022-08-27 04:00	5590805	8.255	-121.422	265.938	20.144	455.009	501.523	0.244	0.326	7.514	20.144	3.582
2022-08-27 04:15	5591705	8.242	-120.666	280.06	20.122	455.181	501.945	0.245	0.326	7.495	20.122	3.772
2022-08-27 04:30	5592605	8.204	-118.506	283.105	20.07	454.906	502.198	0.245	0.326	7.171	20.07	3.614
2022-08-27 04:45	5593505	8.208	-118.735	282.804	20.043	454.806	502.367	0.245	0.327	7.190	20.043	3.301
2022-08-27 05:00	5594405	8.236	-120.285	277.151	19.985	453.791	501.867	0.244	0.326	7.525	19.985	3.356
2022-08-27 05:15	5595305	8.250	-121.078	283.431	19.971	453.624	501.83	0.244	0.326	7.718	19.971	3.331
2022-08-27 05:30	5596205	8.263	-121.825	282.59	19.959	453.585	501.906	0.244	0.326	7.749	19.959	2.955
2022-08-27 05:45	5597105	8.269	-122.108	282.363	19.942	453.36	501.846	0.244	0.326	7.870	19.942	3.104
2022-08-27 06:00	5598005	8.247	-120.878	271.601	19.925	453.804	502.513	0.245	0.327	7.472	19.925	3.214
2022-08-27 06:15	5598905	8.230	-119.934	281.901	19.917	453.843	502.637	0.245	0.327	7.497	19.917	3.11
2022-08-27 06:30	5599805	8.245	-120.735	285.248	19.898	453.516	502.481	0.245	0.327	7.449	19.898	2.996
2022-08-27 06:45	5600705	8.227	-119.7	286.423	19.866	453.105	502.362	0.245	0.327	7.453	19.866	3.312
2022-08-27 07:00	5601605	8.255	-121.279	281.913	19.836	452.586	502.115	0.245	0.326	7.541	19.836	3.215
2022-08-27 07:15	5602505	8.249	-120.959	287.015	19.805	452.216	502.027	0.245	0.326	7.552	19.805	2.95
2022-08-27 07:30	5603405	8.263	-121.727	285.601	19.803	452.323	502.171	0.245	0.326	7.464	19.803	3.142
2022-08-27 07:45	5604305	8.220	-119.271	284.726	19.754	451.949	502.279	0.245	0.326	7.262	19.754	3.41
2022-08-27 08:00	5605205	8.222	-119.393	277.878	19.718	451.721	502.406	0.245	0.327	7.241	19.718	3.514
2022-08-27 08:15	5606105	8.231	-119.905	283.348	19.718	452.161	502.896	0.245	0.327	7.459	19.718	3.884
2022-08-27 08:30	5607005	8.240	-120.42	284.79	19.713	451.803	502.552	0.245	0.327	7.415	19.713	3.757
2022-08-27 08:45	5607905	8.206	-118.461	286.493	19.683	451.452	502.482	0.245	0.327	7.372	19.683	3.892
2022-08-27 09:00	5608805	8.243	-120.561	282.458	19.637	450.558	501.972	0.245	0.326	7.411	19.637	4.139
2022-08-27 09:15	5609705	8.247	-120.759	285.823	19.632	450.285	501.726	0.244	0.326	7.693	19.632	4.573
2022-08-27 09:30	5610605	8.260	-121.515	282.854	19.635	450.121	501.512	0.244	0.326	7.750	19.635	4.402
2022-08-27 09:45	5611505	8.258	-121.386	279.409	19.641	450.11	501.432	0.244	0.326	7.751	19.641	4.292
2022-08-27 10:00	5612405	8.285	-122.912	268.726	19.631	450.061	501.49	0.244	0.326	7.873	19.631	8.031
2022-08-27 10:15	5613305	8.299	-123.701	278.546	19.646	450.269	501.558	0.244	0.326	8.047	19.646	5.177
2022-08-27 10:30	5614205	8.292	-123.312	280.239	19.658	450.303	501.474	0.244	0.326	8.035	19.658	4.709
2022-08-27 10:45	5615105	8.311	-124.416	280.468	19.668	450.362	501.428	0.244	0.326	8.119	19.668	4.84

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-27 11:00	5616005	8.312	-124.49	269.918	19.687	450.017	500.841	0.244	0.326	8.205	19.687	4.108
2022-08-27 11:15	5616905	8.333	-125.67	274.61	19.695	449.736	500.448	0.244	0.325	8.400	19.695	4.946
2022-08-27 11:30	5617805	8.322	-125.036	274.55	19.718	449.946	500.433	0.244	0.325	8.429	19.718	4.386
2022-08-27 11:45	5618705	8.349	-126.591	273.47	19.729	450.168	500.563	0.244	0.325	8.419	19.729	4.55
2022-08-27 12:00	5619605	8.350	-126.631	268.184	19.75	450.396	500.597	0.244	0.325	8.460	19.75	4.348
2022-08-27 12:15	5620505	8.347	-126.495	274.185	19.768	450.676	500.71	0.244	0.325	8.571	19.768	4.243
2022-08-27 12:30	5621405	8.385	-128.627	273.239	19.756	450.267	500.389	0.244	0.325	8.809	19.756	12.323
2022-08-27 12:45	5622305	8.364	-127.459	273.747	19.779	450.678	500.603	0.244	0.325	8.666	19.779	4.095
2022-08-27 13:00	5623205	8.375	-128.083	261.58	19.799	450.323	499.993	0.244	0.325	8.768	19.799	4.28
2022-08-27 13:15	5624105	8.397	-129.33	269.419	19.839	450.297	499.537	0.243	0.325	8.980	19.839	4.438
2022-08-27 13:30	5625005	8.387	-128.767	267.6	19.873	450.755	499.688	0.243	0.325	8.951	19.873	4.119
2022-08-27 13:45	5625905	8.403	-129.685	267.054	19.91	451.021	499.585	0.243	0.325	9.014	19.91	4.145
2022-08-27 14:00	5626805	8.399	-129.471	261.275	19.91	451.158	499.745	0.243	0.325	8.949	19.91	4.188
2022-08-27 14:15	5627705	8.409	-130.022	268.027	19.905	451.218	499.862	0.243	0.325	9.037	19.905	3.92
2022-08-27 14:30	5628605	8.413	-130.286	266.887	19.914	451.005	499.535	0.243	0.325	9.107	19.914	3.953
2022-08-27 14:45	5629505	8.416	-130.477	268.728	19.924	451.209	499.651	0.243	0.325	9.123	19.924	3.99
2022-08-27 15:00	5630405	8.422	-130.796	259.046	19.934	450.962	499.273	0.243	0.325	9.242	19.934	4.092
2022-08-27 15:15	5631305	8.420	-130.696	265.414	19.945	451.117	499.326	0.243	0.325	9.230	19.945	3.76
2022-08-27 15:30	5632205	8.422	-130.806	264.184	20.004	451.599	499.239	0.243	0.325	9.300	20.004	3.686
2022-08-27 15:45	5633105	8.429	-131.259	262.992	20.097	452.606	499.374	0.243	0.325	9.289	20.097	4.145
2022-08-27 16:00	5634005	8.441	-131.96	250.68	20.171	452.973	498.999	0.243	0.324	9.524	20.171	3.868
2022-08-27 16:15	5634905	8.449	-132.465	262.813	20.215	453.63	499.258	0.243	0.325	9.601	20.215	3.612
2022-08-27 16:30	5635805	8.430	-131.404	265.428	20.274	454.535	499.633	0.243	0.325	9.430	20.274	3.747
2022-08-27 16:45	5636705	8.438	-131.903	267.4	20.338	455.101	499.583	0.243	0.325	9.516	20.338	3.995
2022-08-27 17:00	5637605	8.431	-131.507	257.231	20.39	455.226	499.179	0.243	0.324	9.580	20.39	3.965
2022-08-27 17:15	5638505	8.386	-128.944	269.598	20.402	456.674	500.638	0.244	0.325	9.088	20.402	4.879
2022-08-27 17:30	5639405	8.385	-128.903	271.403	20.438	457.011	500.628	0.244	0.325	8.992	20.438	4.189
2022-08-27 17:45	5640305	8.391	-129.261	269.384	20.464	457.342	500.723	0.244	0.325	9.033	20.464	4.911
2022-08-27 18:00	5641205	8.377	-128.458	265.001	20.471	457.733	501.075	0.244	0.326	8.937	20.471	4.75
2022-08-27 18:15	5642105	8.378	-128.512	271.913	20.46	458.026	501.516	0.244	0.326	8.844	20.46	5.03
2022-08-27 18:30	5643005	8.379	-128.558	274.588	20.411	457.104	501.022	0.244	0.326	8.894	20.411	4.262
2022-08-27 18:45	5643905	8.379	-128.551	276.357	20.353	456.262	500.702	0.244	0.325	8.959	20.353	4.299
2022-08-27 19:00	5644805	8.375	-128.295	269.939	20.293	455.371	500.355	0.244	0.325	8.947	20.293	4.815
2022-08-27 19:15	5645705	8.371	-128.067	278.177	20.27	455.427	500.662	0.244	0.325	8.865	20.27	4.781
2022-08-27 19:30	5646605	8.372	-128.09	278.448	20.252	455.302	500.708	0.244	0.325	8.814	20.252	4.306
2022-08-27 19:45	5647505	8.368	-127.866	277.89	20.222	454.978	500.668	0.244	0.325	8.704	20.222	4.006
2022-08-27 20:00	5648405	8.358	-127.246	267.581	20.155	454.548	500.899	0.244	0.326	8.578	20.155	4.048
2022-08-27 20:15	5649305	8.355	-127.103	279.04	20.121	454.547	501.255	0.244	0.326	8.495	20.121	3.88
2022-08-27 20:30	5650205	8.353	-126.977	281.34	20.077	454.092	501.22	0.244	0.326	8.454	20.077	3.628
2022-08-27 20:45	5651105	8.343	-126.379	282.897	20.041	453.835	501.321	0.244	0.326	8.334	20.041	3.443
2022-08-27 21:00	5652005	8.319	-125.015	270.128	20.008	453.518	501.317	0.244	0.326	8.221	20.008	4.583
2022-08-27 21:15	5652905	8.323	-125.237	281.75	19.996	453.495	501.415	0.244	0.326	8.101	19.996	3.174
2022-08-27 21:30	5653806	8.291	-123.389	281.595	19.949	453.19	501.58	0.244	0.326	7.782	19.949	3.078
2022-08-27 21:45	5654706	8.286	-123.107	279.898	19.897	452.805	501.702	0.244	0.326	7.890	19.897	2.897
2022-08-27 22:00	5655606	8.297	-123.649	269.126	19.796	451.895	501.772	0.244	0.326	7.684	19.796	3.369
2022-08-27 22:15	5656506	8.282	-122.788	280.678	19.744	451.549	501.937	0.244	0.326	7.684	19.744	3.181
2022-08-27 22:30	5657406	8.284	-122.826	284.244	19.606	450.113	501.808	0.244	0.326	7.601	19.606	3.624
2022-08-27 22:45	5658306	8.271	-122.075	285.439	19.51	449.436	502.086	0.245	0.326	7.601	19.51	3.32

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-27 23:00	5659206	8.268	-121.844	279.998	19.422	448.036	501.46	0.244	0.326	7.521	19.422	4.104
2022-08-27 23:15	5660106	8.249	-120.757	283.82	19.37	447.71	501.656	0.244	0.326	7.576	19.37	3.795
2022-08-27 23:30	5661006	8.237	-120.07	282.265	19.299	446.969	501.587	0.244	0.326	7.527	19.299	3.594
2022-08-27 23:45	5661906	8.246	-120.571	282.69	19.252	446.717	501.804	0.244	0.326	7.513	19.252	3.427
2022-08-28 00:00	5662806	8.238	-120.06	262.455	19.208	446.744	502.318	0.245	0.327	7.279	19.208	3.24
2022-08-28 00:15	5663706	8.199	-117.872	277.545	19.184	446.789	502.627	0.245	0.327	7.060	19.184	3.42
2022-08-28 00:30	5664606	8.187	-117.171	280.973	19.152	446.636	502.797	0.245	0.327	6.908	19.152	3.358
2022-08-28 00:45	5665506	8.166	-115.95	280.015	19.125	446.531	502.973	0.245	0.327	6.868	19.125	3.478
2022-08-28 01:00	5666406	8.202	-118.022	276.608	19.127	446.386	502.784	0.245	0.327	6.729	19.127	2.818
2022-08-28 01:15	5667306	8.142	-114.624	284.089	19.082	445.778	502.584	0.245	0.327	6.628	19.082	3.063
2022-08-28 01:30	5668206	8.137	-114.317	284.418	19.039	445.06	502.244	0.245	0.326	6.973	19.039	3.205
2022-08-28 01:45	5669106	8.129	-113.857	282.273	19.02	444.807	502.163	0.245	0.326	7.001	19.02	3.363
2022-08-28 02:00	5670006	8.201	-117.905	273.086	18.955	444.216	502.196	0.245	0.326	7.121	18.955	3.499
2022-08-28 02:15	5670906	8.219	-118.897	282.099	18.937	443.813	501.935	0.244	0.326	7.071	18.937	3.036
2022-08-28 02:30	5671806	8.222	-119.073	286.371	18.919	443.77	502.091	0.245	0.326	7.189	18.919	3.11
2022-08-28 02:45	5672706	8.213	-118.515	286.307	18.901	443.824	502.344	0.245	0.327	7.109	18.901	3.236
2022-08-28 03:00	5673606	8.207	-118.182	282.859	18.832	443.033	502.197	0.245	0.326	6.943	18.832	3.206
2022-08-28 03:15	5674506	8.166	-115.881	289.232	18.811	442.595	501.926	0.244	0.326	7.084	18.811	3.391
2022-08-28 03:30	5675406	8.151	-115.004	286.164	18.766	441.976	501.711	0.244	0.326	7.282	18.766	3.269
2022-08-28 03:45	5676306	8.214	-118.506	282.857	18.734	441.735	501.789	0.244	0.326	7.279	18.734	3.418
2022-08-28 04:00	5677206	8.244	-120.215	274.204	18.699	441.496	501.901	0.244	0.326	7.295	18.699	3.575
2022-08-28 04:15	5678106	8.217	-118.651	282.458	18.651	441.142	502.018	0.244	0.326	7.135	18.651	3.527
2022-08-28 04:30	5679006	8.195	-117.426	285.601	18.597	440.233	501.57	0.244	0.326	7.126	18.597	3.583
2022-08-28 04:45	5679906	8.222	-118.873	287.537	18.537	440.021	501.987	0.244	0.326	7.325	18.537	4.019
2022-08-28 05:00	5680806	8.246	-120.234	274.953	18.515	439.589	501.735	0.244	0.326	7.255	18.515	3.7
2022-08-28 05:15	5681706	8.245	-120.223	284.576	18.535	439.727	501.674	0.244	0.326	7.215	18.535	3.146
2022-08-28 05:30	5682606	8.188	-116.968	283.558	18.528	439.864	501.906	0.244	0.326	7.288	18.528	3.195
2022-08-28 05:45	5683506	8.197	-117.481	283.019	18.532	439.87	501.872	0.244	0.326	7.380	18.532	3.002
2022-08-28 06:00	5684406	8.226	-119.097	271.985	18.532	440.177	502.22	0.245	0.326	7.215	18.532	3.017
2022-08-28 06:15	5685306	8.159	-115.316	281.955	18.502	439.641	501.942	0.244	0.326	7.003	18.502	3.082
2022-08-28 06:30	5686206	8.209	-118.165	284.991	18.476	439.238	501.765	0.244	0.326	7.204	18.476	2.953
2022-08-28 06:45	5687106	8.177	-116.336	286.64	18.417	438.634	501.718	0.244	0.326	7.327	18.417	2.891
2022-08-28 07:00	5688006	8.222	-118.816	280.768	18.357	438.335	502.036	0.244	0.326	7.370	18.357	3.293
2022-08-28 07:15	5688906	8.236	-119.624	285.908	18.393	438.621	501.967	0.244	0.326	7.205	18.393	2.941
2022-08-28 07:30	5689806	8.200	-117.602	283.972	18.38	438.479	501.95	0.244	0.326	7.310	18.38	3.067
2022-08-28 07:45	5690706	8.159	-115.297	282.604	18.371	438.408	501.967	0.244	0.326	7.364	18.371	2.954
2022-08-28 08:00	5691606	8.174	-116.134	278.551	18.36	438.834	502.578	0.245	0.327	7.073	18.36	2.861
2022-08-28 08:15	5692506	8.200	-117.609	282.964	18.369	439.226	502.923	0.245	0.327	6.985	18.369	2.735
2022-08-28 08:30	5693406	8.171	-115.936	284.158	18.339	438.242	502.124	0.244	0.326	7.050	18.339	2.923
2022-08-28 08:45	5694306	8.192	-117.116	284.917	18.315	438.244	502.386	0.245	0.327	7.297	18.315	2.906
2022-08-28 09:00	5695206	8.239	-119.767	280.148	18.336	437.934	501.809	0.244	0.326	7.231	18.336	3.095
2022-08-28 09:15	5696106	8.234	-119.529	284.385	18.365	438.321	501.93	0.244	0.326	7.199	18.365	3.011
2022-08-28 09:30	5697006	8.241	-119.946	282.296	18.423	438.703	501.734	0.244	0.326	7.309	18.423	3.737
2022-08-28 09:45	5697906	8.246	-120.246	278.835	18.456	439.143	501.869	0.244	0.326	7.358	18.456	3.407
2022-08-28 10:00	5698806	8.259	-120.964	268.213	18.463	439.006	501.637	0.244	0.326	7.499	18.463	4.092
2022-08-28 10:15	5699706	8.271	-121.605	276.732	18.465	438.762	501.342	0.244	0.326	7.895	18.465	3.686
2022-08-28 10:30	5700606	8.295	-123.017	278.422	18.482	438.762	501.151	0.244	0.326	8.115	18.482	3.049
2022-08-28 10:45	5701506	8.305	-123.594	279.464	18.517	439.152	501.213	0.244	0.326	8.135	18.517	3.184

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-28 11:00	5702406	8.321	-124.493	275.921	18.555	439.261	500.923	0.244	0.326	8.165	18.555	3.246
2022-08-28 11:15	5703306	8.322	-124.533	280.496	18.579	439.202	500.59	0.244	0.325	8.362	18.579	3.301
2022-08-28 11:30	5704206	8.336	-125.38	276.832	18.61	439.443	500.537	0.244	0.325	8.477	18.61	3.188
2022-08-28 11:45	5705106	8.334	-125.265	275.826	18.647	440.012	500.782	0.244	0.326	8.262	18.647	3.239
2022-08-28 12:00	5706006	8.328	-124.915	269.643	18.663	440.583	501.252	0.244	0.326	8.124	18.663	3.548
2022-08-28 12:15	5706906	8.313	-124.073	278.031	18.663	441.041	501.77	0.244	0.326	7.999	18.663	3.523
2022-08-28 12:30	5707806	8.326	-124.817	279.438	18.681	440.82	501.332	0.244	0.326	8.095	18.681	4.244
2022-08-28 12:45	5708706	8.309	-123.878	281.059	18.692	441.047	501.465	0.244	0.326	8.078	18.692	3.654
2022-08-28 13:00	5709606	8.318	-124.388	275.368	18.693	440.898	501.283	0.244	0.326	8.034	18.693	4.57
2022-08-28 13:15	5710506	8.323	-124.698	280.844	18.735	441.228	501.2	0.244	0.326	8.137	18.735	3.758
2022-08-28 13:30	5711406	8.330	-125.105	278.587	18.768	441.644	501.312	0.244	0.326	8.167	18.768	4.156
2022-08-28 13:45	5712306	8.324	-124.767	277.316	18.802	441.958	501.299	0.244	0.326	8.215	18.802	3.88
2022-08-28 14:00	5713206	8.331	-125.203	267.812	18.848	442.426	501.331	0.244	0.326	8.232	18.848	4.441
2022-08-28 14:15	5714106	8.345	-125.971	276.055	18.872	442.603	501.275	0.244	0.326	8.290	18.872	3.92
2022-08-28 14:30	5715006	8.344	-125.954	276.863	18.933	443.239	501.334	0.244	0.326	8.324	18.933	4.542
2022-08-28 14:45	5715906	8.356	-126.667	276.286	18.983	443.399	500.975	0.244	0.326	8.435	18.983	4.259
2022-08-28 15:00	5716806	8.341	-125.813	270.12	19.031	444.025	501.164	0.244	0.326	8.346	19.031	4.345
2022-08-28 15:15	5717706	8.351	-126.402	274.593	19.085	444.473	501.086	0.244	0.326	8.369	19.085	4.653
2022-08-28 15:30	5718606	8.362	-127.056	273.527	19.125	444.647	500.848	0.244	0.326	8.501	19.125	4.227
2022-08-28 15:45	5719506	8.360	-126.97	272.967	19.182	445.164	500.817	0.244	0.326	8.571	19.182	4.281
2022-08-28 16:00	5720406	8.350	-126.419	263.547	19.19	445.493	501.097	0.244	0.326	8.539	19.19	4.706
2022-08-28 16:15	5721306	8.355	-126.693	273.563	19.217	445.83	501.194	0.244	0.326	8.534	19.217	4.854
2022-08-28 16:30	5722206	8.354	-126.657	275.442	19.257	446.217	501.192	0.244	0.326	8.545	19.257	4.194
2022-08-28 16:45	5723106	8.355	-126.739	275.046	19.293	446.58	501.217	0.244	0.326	8.606	19.293	4.686
2022-08-28 17:00	5724006	8.348	-126.324	271.439	19.313	446.698	501.129	0.244	0.326	8.524	19.313	4.659
2022-08-28 17:15	5724906	8.346	-126.209	275.485	19.312	446.885	501.349	0.244	0.326	8.440	19.312	5.008
2022-08-28 17:30	5725806	8.345	-126.176	274.409	19.338	446.989	501.185	0.244	0.326	8.518	19.338	5.192
2022-08-28 17:45	5726706	8.346	-126.226	274.526	19.343	447.2	501.369	0.244	0.326	8.506	19.343	4.774
2022-08-28 18:00	5727606	8.346	-126.247	269.899	19.344	447.352	501.532	0.244	0.326	8.516	19.344	5.621
2022-08-28 18:15	5728506	8.345	-126.164	275.606	19.346	447.477	501.651	0.244	0.326	8.473	19.346	5.398
2022-08-28 18:30	5729406	8.346	-126.238	277.848	19.331	447.341	501.659	0.244	0.326	8.442	19.331	5.076
2022-08-28 18:45	5730306	8.338	-125.754	280.186	19.318	447.503	501.978	0.244	0.326	8.368	19.318	4.966
2022-08-28 19:00	5731206	8.331	-125.339	274.24	19.283	447.048	501.852	0.244	0.326	8.339	19.283	5.488
2022-08-28 19:15	5732106	8.328	-125.175	279.667	19.276	446.955	501.817	0.244	0.326	8.282	19.276	4.984
2022-08-28 19:30	5733006	8.328	-125.16	278.639	19.26	446.913	501.939	0.244	0.326	8.233	19.26	5.132
2022-08-28 19:45	5733906	8.327	-125.124	277.421	19.244	446.831	502.028	0.245	0.326	8.143	19.244	4.386
2022-08-28 20:00	5734806	8.314	-124.4	269.553	19.21	446.757	502.305	0.245	0.326	8.106	19.21	5.289
2022-08-28 20:15	5735706	8.322	-124.824	277.554	19.194	446.686	502.402	0.245	0.327	8.074	19.194	4.293
2022-08-28 20:30	5736606	8.298	-123.429	281.932	19.18	446.953	502.846	0.245	0.327	7.949	19.18	3.763
2022-08-28 20:45	5737506	8.278	-122.342	283.105	19.16	446.811	502.912	0.245	0.327	7.828	19.16	3.968
2022-08-28 21:00	5738406	8.270	-121.88	276.617	19.127	446.34	502.733	0.245	0.327	7.665	19.127	4.35
2022-08-28 21:15	5739306	8.232	-119.679	284.211	19.112	446.372	502.932	0.245	0.327	7.532	19.112	3.639
2022-08-28 21:30	5740206	8.254	-120.931	281.86	19.075	445.887	502.781	0.245	0.327	7.474	19.075	3.642
2022-08-28 21:45	5741106	8.281	-122.435	280.096	19.049	445.553	502.691	0.245	0.327	7.605	19.049	3.769
2022-08-28 22:00	5742006	8.249	-120.609	273.103	19.032	445.759	503.112	0.245	0.327	7.493	19.032	3.635
2022-08-28 22:15	5742906	8.209	-118.356	282.861	18.998	445.828	503.56	0.245	0.327	7.162	18.998	3.46
2022-08-28 22:30	5743806	8.180	-116.68	284.18	18.912	444.871	503.407	0.245	0.327	6.954	18.912	3.475
2022-08-28 22:45	5744706	8.182	-116.761	284.661	18.85	444.381	503.531	0.245	0.327	6.916	18.85	3.82

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-28 23:00	5745606	8.216	-118.635	277.316	18.778	443.763	503.614	0.245	0.327	6.920	18.778	4.419
2022-08-28 23:15	5746506	8.144	-114.57	284.385	18.717	442.94	503.343	0.245	0.327	6.885	18.717	4.654
2022-08-28 23:30	5747406	8.147	-114.696	284.638	18.666	442.494	503.393	0.245	0.327	7.011	18.666	4.194
2022-08-28 23:45	5748306	8.151	-114.906	284.704	18.62	442.161	503.524	0.245	0.327	6.891	18.62	4.984
2022-08-29 00:00	5749206	8.166	-115.781	276.009	18.589	442.153	503.846	0.245	0.327	6.819	18.589	3.773
2022-08-29 00:15	5750106	8.143	-114.455	282.845	18.532	441.469	503.698	0.245	0.327	6.617	18.532	3.766
2022-08-29 00:30	5751006	8.134	-113.95	286.271	18.509	441.419	503.89	0.245	0.328	6.588	18.509	4.293
2022-08-29 00:45	5751906	8.129	-113.623	285.827	18.477	441.181	503.966	0.245	0.328	6.514	18.477	3.271
2022-08-29 01:00	5752806	8.156	-115.132	281.131	18.468	440.909	503.762	0.245	0.327	***6.403***	18.468	3.503
2022-08-29 01:15	5753706	8.135	-113.945	288.204	18.432	440.491	503.676	0.245	0.327	***6.402***	18.432	3.405
2022-08-29 01:30	5754606	8.105	-112.247	286.512	18.417	440.171	503.476	0.245	0.327	6.625	18.417	3.595
2022-08-29 01:45	5755506	8.135	-113.928	285.3	18.407	439.851	503.223	0.245	0.327	6.686	18.407	3.589
2022-08-29 02:00	5756406	8.214	-118.399	273.213	18.358	439.36	503.195	0.245	0.327	6.810	18.358	3.787
2022-08-29 02:15	5757306	8.168	-115.762	284.208	18.348	439.344	503.285	0.245	0.327	6.871	18.348	3.373
2022-08-29 02:30	5758206	8.161	-115.368	286.984	18.331	439.476	503.625	0.245	0.327	6.775	18.331	2.871
2022-08-29 02:45	5759106	8.160	-115.314	288.08	18.32	439.201	503.436	0.245	0.327	6.611	18.32	2.902
2022-08-29 03:00	5760006	8.193	-117.145	281.529	18.281	438.682	503.266	0.245	0.327	6.726	18.281	3.187
2022-08-29 03:15	5760906	8.198	-117.428	288.364	18.267	438.149	502.806	0.245	0.327	6.951	18.267	3.17
2022-08-29 03:30	5761806	8.162	-115.426	283.386	18.239	437.686	502.586	0.245	0.327	7.312	18.239	3.299
2022-08-29 03:45	5762706	8.175	-116.143	282.125	18.233	437.694	502.66	0.245	0.327	7.318	18.233	2.899
2022-08-29 04:00	5763606	8.234	-119.433	270.247	18.232	438.021	503.047	0.245	0.327	7.236	18.232	3.583
2022-08-29 04:15	5764506	8.207	-117.927	281.166	18.227	438.209	503.319	0.245	0.327	7.128	18.227	3.159
2022-08-29 04:30	5765406	8.212	-118.239	284.034	18.232	438.801	503.95	0.245	0.328	6.986	18.232	2.729
2022-08-29 04:45	5766306	8.180	-116.415	284.952	18.232	438.695	503.818	0.245	0.327	6.756	18.232	2.783
2022-08-29 05:00	5767206	8.188	-116.863	284.454	18.218	438.242	503.454	0.245	0.327	6.705	18.218	2.708
2022-08-29 05:15	5768106	8.191	-117.004	288.736	18.222	438.424	503.626	0.245	0.327	6.679	18.222	2.519
2022-08-29 05:30	5769006	8.071	-110.264	287.272	18.199	438.124	503.532	0.245	0.327	6.581	18.199	2.603
2022-08-29 05:45	5769906	8.121	-113.051	284.723	18.171	437.79	503.463	0.245	0.327	6.535	18.171	2.89
2022-08-29 06:00	5770806	8.171	-115.852	268.354	18.136	437.513	503.524	0.245	0.327	6.688	18.136	3.483
2022-08-29 06:15	5771706	8.175	-116.062	282.017	18.126	437.496	503.623	0.245	0.327	6.670	18.126	2.907
2022-08-29 06:30	5772606	8.177	-116.167	284.516	18.112	437.419	503.688	0.245	0.327	6.691	18.112	3.394
2022-08-29 06:45	5773506	8.151	-114.715	286.257	18.081	437.053	503.603	0.245	0.327	6.622	18.081	2.809
2022-08-29 07:00	5774406	8.170	-115.759	281.038	18.075	436.965	503.572	0.245	0.327	6.629	18.075	2.564
2022-08-29 07:15	5775306	8.161	-115.266	287.277	18.078	437.068	503.659	0.245	0.327	***6.468***	18.078	2.576
2022-08-29 07:30	5776206	8.120	-112.984	285.088	18.072	437.024	503.676	0.245	0.327	6.641	18.072	2.459
2022-08-29 07:45	5777106	8.101	-111.907	284.192	18.066	437.034	503.754	0.245	0.327	***6.482***	18.066	2.295
2022-08-29 08:00	5778006	8.149	-114.582	277.223	18.054	437.142	504.008	0.245	0.328	***6.360***	18.054	2.764
2022-08-29 08:15	5778906	8.138	-114.002	283.522	18.056	437.468	504.359	0.246	0.328	***6.282***	18.056	2.61
2022-08-29 08:30	5779806	8.137	-113.895	285.982	18.045	437.168	504.138	0.245	0.328	***6.479***	18.045	2.422
2022-08-29 08:45	5780706	8.133	-113.69	286.452	18.043	436.993	503.963	0.245	0.328	***6.486***	18.043	2.848
2022-08-29 09:00	5781606	8.140	-114.064	282.435	18.039	436.773	503.754	0.245	0.327	***6.483***	18.039	2.66
2022-08-29 09:15	5782506	8.136	-113.845	286.745	18.059	437.016	503.807	0.245	0.327	***6.293***	18.059	2.332
2022-08-29 09:30	5783406	8.134	-113.773	284.206	18.075	437.04	503.661	0.245	0.327	6.672	18.075	2.41
2022-08-29 09:45	5784306	8.113	-112.591	282.761	18.09	437.118	503.579	0.245	0.327	6.823	18.09	2.314
2022-08-29 10:00	5785206	8.157	-115.075	273.079	18.105	437.485	503.841	0.245	0.327	6.671	18.105	2.569
2022-08-29 10:15	5786106	8.133	-113.742	281.104	18.119	437.781	504.022	0.245	0.328	***6.317***	18.119	2.447
2022-08-29 10:30	5787006	8.124	-113.239	284.008	18.131	438.05	504.2	0.245	0.328	***6.261***	18.131	2.348
2022-08-29 10:45	5787906	8.125	-113.294	284.638	18.167	438.308	504.095	0.245	0.328	***6.264***	18.167	2.607

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-29 11:00	5788806	8.165	-115.542	279.721	18.215	438.049	503.265	0.245	0.327	6.555	18.215	2.805
2022-08-29 11:15	5789706	8.224	-118.899	282.63	18.266	437.934	502.572	0.245	0.327	7.172	18.266	3.283
2022-08-29 11:30	5790606	8.201	-117.602	278.434	18.29	438.145	502.557	0.245	0.327	7.451	18.29	3.637
2022-08-29 11:45	5791506	8.258	-120.838	280.027	18.304	438.196	502.453	0.245	0.327	7.651	18.304	3.288
2022-08-29 12:00	5792406	8.281	-122.154	270.216	18.315	438.396	502.562	0.245	0.327	7.789	18.315	3.644
2022-08-29 12:15	5793306	8.290	-122.669	278.365	18.32	438.513	502.645	0.245	0.327	7.844	18.32	4.017
2022-08-29 12:30	5794206	8.304	-123.405	281.049	18.317	438.323	502.463	0.245	0.327	7.874	18.317	4.384
2022-08-29 12:45	5795106	8.294	-122.886	282.664	18.32	438.445	502.567	0.245	0.327	7.797	18.32	3.933
2022-08-29 13:00	5796006	8.293	-122.826	277.561	18.337	438.472	502.409	0.245	0.327	7.825	18.337	3.987
2022-08-29 13:15	5796906	8.292	-122.771	282.311	18.388	438.984	502.437	0.245	0.327	7.862	18.388	3.696
2022-08-29 13:30	5797806	8.300	-123.258	280.465	18.48	439.877	502.452	0.245	0.327	7.933	18.48	4.099
2022-08-29 13:45	5798706	8.309	-123.82	277.671	18.52	440.194	502.37	0.245	0.327	8.058	18.52	4.192
2022-08-29 14:00	5799606	8.310	-123.87	270.454	18.576	440.794	502.444	0.245	0.327	8.080	18.576	4.192
2022-08-29 14:15	5800506	8.303	-123.508	278.143	18.578	440.96	502.613	0.245	0.327	8.059	18.578	4.13
2022-08-29 14:30	5801406	8.302	-123.436	281.04	18.591	441.034	502.553	0.245	0.327	8.116	18.591	3.444
2022-08-29 14:45	5802306	8.314	-124.097	281.648	18.621	441.351	502.583	0.245	0.327	8.131	18.621	3.796
2022-08-29 15:00	5803206	8.312	-124.042	277.39	18.652	441.311	502.203	0.245	0.326	8.186	18.652	4.165
2022-08-29 15:15	5804106	8.321	-124.516	281.054	18.662	441.467	502.274	0.245	0.326	8.196	18.662	4.035
2022-08-29 15:30	5805006	8.317	-124.335	280.108	18.665	441.568	502.348	0.245	0.327	8.089	18.665	4.194
2022-08-29 15:45	5805906	8.287	-122.631	279.576	18.673	441.674	502.385	0.245	0.327	8.042	18.673	3.485
2022-08-29 16:00	5806806	8.293	-122.983	269.036	18.688	442.089	502.695	0.245	0.327	7.989	18.688	3.825
2022-08-29 16:15	5807706	8.269	-121.596	279.021	18.71	442.662	503.101	0.245	0.327	7.889	18.71	3.319
2022-08-29 16:30	5808606	8.261	-121.176	282.072	18.728	442.915	503.198	0.245	0.327	7.852	18.728	2.813
2022-08-29 16:45	5809506	8.263	-121.326	283.694	18.746	443.208	503.337	0.245	0.327	7.634	18.746	2.762
2022-08-29 17:00	5810406	8.249	-120.504	277.111	18.775	443.302	503.127	0.245	0.327	7.543	18.775	2.936
2022-08-29 17:15	5811306	8.261	-121.226	282.33	18.863	443.381	502.257	0.245	0.326	8.141	18.863	3.608
2022-08-29 17:30	5812206	8.281	-122.406	278.303	18.922	443.685	501.962	0.244	0.326	8.297	18.922	3.646
2022-08-29 17:45	5813106	8.343	-125.909	274.245	18.939	443.752	501.853	0.244	0.326	8.479	18.939	3.636
2022-08-29 18:00	5814006	8.330	-125.172	270.926	18.941	444.013	502.127	0.245	0.326	8.480	18.941	3.481
2022-08-29 18:15	5814906	8.329	-125.108	277.065	18.936	444.45	502.669	0.245	0.327	8.323	18.936	4.258
2022-08-29 18:30	5815806	8.328	-125.062	278.978	18.936	444.725	502.984	0.245	0.327	8.250	18.936	3.777
2022-08-29 18:45	5816706	8.321	-124.662	280.291	18.94	444.717	502.926	0.245	0.327	8.252	18.94	3.503
2022-08-29 19:00	5817606	8.311	-124.083	274.111	18.97	444.577	502.447	0.245	0.327	8.168	18.97	3.567
2022-08-29 19:15	5818506	8.300	-123.477	280.506	18.995	444.82	502.453	0.245	0.327	8.195	18.995	3.072
2022-08-29 19:30	5819406	8.300	-123.472	279.035	19.009	445.077	502.593	0.245	0.327	8.062	19.009	3.009
2022-08-29 19:45	5820306	8.297	-123.358	277.933	19.026	445.426	502.792	0.245	0.327	8.091	19.026	3.194
2022-08-29 20:00	5821206	8.279	-122.354	272.781	19.051	445.726	502.869	0.245	0.327	8.079	19.051	3.55
2022-08-29 20:15	5822106	8.293	-123.148	278.155	19.062	446.149	503.223	0.245	0.327	8.138	19.062	3.183
2022-08-29 20:30	5823006	8.287	-122.778	282.084	19.064	446.349	503.427	0.245	0.327	7.896	19.064	3.028
2022-08-29 20:45	5823906	8.260	-121.276	282.706	19.059	446.612	503.774	0.245	0.327	7.670	19.059	2.787
2022-08-29 21:00	5824806	8.264	-121.491	278.467	19.056	445.984	503.101	0.245	0.327	7.838	19.056	2.712
2022-08-29 21:15	5825706	8.264	-121.493	281.08	19.057	446.242	503.384	0.245	0.327	7.712	19.057	2.417
2022-08-29 21:30	5826606	8.252	-120.778	279.347	19.051	446.194	503.393	0.245	0.327	7.691	19.051	2.413
2022-08-29 21:45	5827506	8.195	-117.552	278.353	19.034	446.08	503.452	0.245	0.327	7.442	19.034	2.354
2022-08-29 22:00	5828406	8.230	-119.514	271.434	18.963	445.549	503.62	0.245	0.327	7.272	18.963	2.673
2022-08-29 22:15	5829306	8.214	-118.587	277.313	18.917	445.326	503.866	0.245	0.328	7.512	18.917	2.71
2022-08-29 22:30	5830206	8.221	-118.973	279.507	18.891	445.18	503.987	0.245	0.328	7.557	18.891	2.688
2022-08-29 22:45	5831106	8.215	-118.661	281.278	18.881	445.585	504.55	0.246	0.328	7.467	18.881	2.419

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-29 23:00	5832006	8.243	-120.234	273.127	18.874	444.854	503.801	0.245	0.327	7.269	18.874	2.818
2022-08-29 23:15	5832906	8.210	-118.346	280.239	18.868	444.814	503.823	0.245	0.327	7.269	18.868	2.767
2022-08-29 23:30	5833806	8.178	-116.518	279.8	18.835	444.815	504.181	0.246	0.328	7.131	18.835	2.529
2022-08-29 23:45	5834706	8.156	-115.316	278.453	18.814	444.758	504.343	0.246	0.328	7.147	18.814	2.316
2022-08-30 00:00	5835606	8.204	-117.981	274.216	18.779	444.844	504.825	0.246	0.328	7.068	18.779	2.547
2022-08-30 00:15	5836506	8.171	-116.098	277.764	18.751	445.361	505.718	0.246	0.329	7.010	18.751	2.328
2022-08-30 00:30	5837406	8.190	-117.209	279.237	18.746	445.434	505.861	0.246	0.329	7.012	18.746	2.374
2022-08-30 00:45	5838306	8.173	-116.203	282.189	18.721	444.749	505.354	0.246	0.328	6.932	18.721	2.436
2022-08-30 01:00	5839206	8.224	-119.064	273.844	18.688	444.309	505.223	0.246	0.328	7.052	18.688	3.99
2022-08-30 01:15	5840106	8.202	-117.831	280.773	18.692	444.371	505.247	0.246	0.328	6.936	18.692	2.448
2022-08-30 01:30	5841006	8.192	-117.273	280.859	18.671	444.189	505.268	0.246	0.328	6.967	18.671	2.442
2022-08-30 01:45	5841906	8.191	-117.218	278.849	18.652	444.072	505.347	0.246	0.328	6.986	18.652	2.212
2022-08-30 02:00	5842806	8.186	-116.901	267.855	18.601	443.928	505.741	0.246	0.329	6.772	18.601	2.687
2022-08-30 02:15	5843706	8.175	-116.26	277.578	18.585	444.163	506.182	0.247	0.329	6.763	18.585	2.431
2022-08-30 02:30	5844606	8.178	-116.451	281.331	18.572	444.268	506.446	0.247	0.329	6.770	18.572	2.392
2022-08-30 02:45	5845506	8.153	-115.006	283.286	18.54	443.552	505.989	0.246	0.329	6.665	18.54	2.347
2022-08-30 03:00	5846406	8.181	-116.56	276.992	18.506	442.959	505.685	0.246	0.329	6.658	18.506	2.513
2022-08-30 03:15	5847306	8.176	-116.298	282.375	18.499	442.908	505.7	0.246	0.329	6.686	18.499	2.378
2022-08-30 03:30	5848206	8.141	-114.336	281.424	18.484	442.897	505.857	0.246	0.329	6.868	18.484	2.231
2022-08-30 03:45	5849106	8.143	-114.405	280.415	18.47	442.929	506.048	0.246	0.329	6.766	18.47	2.406
2022-08-30 04:00	5850006	8.149	-114.741	276.469	18.434	442.863	506.365	0.247	0.329	6.607	18.434	2.302
2022-08-30 04:15	5850906	8.133	-113.835	280.852	18.403	442.961	506.827	0.247	0.329	6.504	18.403	2.31
2022-08-30 04:30	5851806	8.137	-114.05	282.53	18.389	442.889	506.893	0.247	0.329	6.514	18.389	2.233
2022-08-30 04:45	5852706	8.126	-113.406	284.178	18.341	442.504	506.98	0.247	0.330	6.522	18.341	2.433
2022-08-30 05:00	5853606	8.166	-115.652	280.179	18.34	441.985	506.407	0.247	0.329	***6.470***	18.34	2.181
2022-08-30 05:15	5854506	8.141	-114.245	284.661	18.324	441.74	506.299	0.247	0.329	***6.317***	18.324	2.237
2022-08-30 05:30	5855406	8.112	-112.588	283.667	18.254	441.129	506.372	0.247	0.329	***6.473***	18.254	2.343
2022-08-30 05:45	5856306	8.132	-113.68	280.692	18.209	440.567	506.232	0.246	0.329	6.637	18.209	2.58
2022-08-30 06:00	5857206	8.190	-116.947	271.253	18.192	440.521	506.366	0.247	0.329	6.720	18.192	2.377
2022-08-30 06:15	5858106	8.157	-115.092	279.125	18.171	440.567	506.65	0.247	0.329	6.660	18.171	2.257
2022-08-30 06:30	5859006	8.146	-114.465	282.079	18.137	440.261	506.677	0.247	0.329	***6.491***	18.137	2.428
2022-08-30 06:45	5859906	8.143	-114.307	283.56	18.128	440.487	507.041	0.247	0.330	***6.496***	18.128	2.349
2022-08-30 07:00	5860806	8.165	-115.509	279.869	18.111	439.906	506.556	0.247	0.329	***6.456***	18.111	2.786
2022-08-30 07:15	5861706	8.126	-113.339	284.144	18.089	439.599	506.454	0.247	0.329	***6.277***	18.089	2.357
2022-08-30 07:30	5862606	8.114	-112.603	281.846	18.059	439.235	506.37	0.247	0.329	***6.358***	18.059	2.309
2022-08-30 07:45	5863506	8.108	-112.278	281.595	18.029	438.954	506.378	0.247	0.329	***6.457***	18.029	2.473
2022-08-30 08:00	5864406	8.145	-114.326	276.887	18	439.027	506.781	0.247	0.329	***6.333***	18	2.341
2022-08-30 08:15	5865306	8.128	-113.397	281.817	17.979	438.612	506.541	0.247	0.329	***6.302***	17.979	2.267
2022-08-30 08:30	5866206	8.121	-112.948	283.608	17.935	438.35	506.724	0.247	0.329	***6.361***	17.935	2.515
2022-08-30 08:45	5867106	8.122	-113.044	282.802	17.909	438.197	506.843	0.247	0.329	6.518	17.909	2.383
2022-08-30 09:00	5868006	8.155	-114.884	279.798	17.898	437.612	506.289	0.246	0.329	***6.488***	17.898	2.419
2022-08-30 09:15	5868906	8.148	-114.51	283.174	17.91	437.607	506.155	0.246	0.329	6.677	17.91	2.469
2022-08-30 09:30	5869806	8.143	-114.205	280.344	17.909	437.718	506.287	0.246	0.329	6.625	17.909	2.15
2022-08-30 09:45	5870706	8.124	-113.142	278.305	17.902	437.605	506.235	0.246	0.329	6.532	17.902	2.458
2022-08-30 10:00	5871606	8.170	-115.702	269.288	17.883	437.542	506.374	0.247	0.329	6.671	17.883	2.407
2022-08-30 10:15	5872506	8.165	-115.418	276.515	17.885	438.121	507.026	0.247	0.330	6.540	17.885	2.42
2022-08-30 10:30	5873406	8.151	-114.648	278.219	17.879	438.105	507.074	0.247	0.330	***6.469***	17.879	2.52
2022-08-30 10:45	5874306	8.126	-113.208	279.578	17.881	438.04	506.975	0.247	0.330	6.910	17.881	2.789

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-30 11:00	5875206	8.221	-118.551	270.48	17.85	436.477	505.514	0.246	0.329	6.982	17.85	2.941
2022-08-30 11:15	5876106	8.219	-118.47	274.872	17.838	436.252	505.39	0.246	0.329	7.244	17.838	2.999
2022-08-30 11:30	5877006	8.226	-118.833	274.042	17.852	436.405	505.408	0.246	0.329	7.222	17.852	2.775
2022-08-30 11:45	5877906	8.239	-119.61	274.736	17.912	436.879	505.287	0.246	0.328	7.345	17.912	2.875
2022-08-30 12:00	5878806	8.252	-120.389	267.162	17.989	437.672	505.343	0.246	0.328	7.501	17.989	4.198
2022-08-30 12:15	5879706	8.255	-120.556	274.421	18.04	437.86	504.992	0.246	0.328	7.711	18.04	4.244
2022-08-30 12:30	5880606	8.257	-120.69	280.05	18.062	438.223	505.162	0.246	0.328	7.636	18.062	3.712
2022-08-30 12:45	5881506	8.265	-121.133	281.519	18.094	438.574	505.217	0.246	0.328	7.620	18.094	3.681
2022-08-30 13:00	5882406	8.246	-120.082	282.759	18.137	438.842	505.045	0.246	0.328	7.622	18.137	3.796
2022-08-30 13:15	5883306	8.275	-121.763	280.697	18.219	439.441	504.823	0.246	0.328	7.674	18.219	3.788
2022-08-30 13:30	5884206	8.284	-122.287	274.998	18.292	440.102	504.778	0.246	0.328	7.823	18.292	3.89
2022-08-30 13:45	5885106	8.310	-123.78	272.528	18.38	440.734	504.524	0.246	0.328	8.020	18.38	3.596
2022-08-30 14:00	5886006	8.311	-123.866	267.305	18.458	441.654	504.724	0.246	0.328	8.109	18.458	3.896
2022-08-30 14:15	5886906	8.312	-123.937	274.107	18.514	442.54	505.117	0.246	0.328	8.129	18.514	5.126
2022-08-30 14:30	5887806	8.319	-124.371	275.692	18.585	443.27	505.171	0.246	0.328	8.175	18.585	4.005
2022-08-30 14:45	5888706	8.310	-123.894	276.219	18.655	443.905	505.115	0.246	0.328	8.227	18.655	3.709
2022-08-30 15:00	5889606	8.334	-125.31	270.902	18.758	444.319	504.461	0.246	0.328	8.378	18.758	5.082
2022-08-30 15:15	5890506	8.342	-125.802	272.826	18.81	444.836	504.483	0.246	0.328	8.431	18.81	4.088
2022-08-30 15:30	5891406	8.336	-125.458	270.511	18.855	445.175	504.374	0.246	0.328	8.484	18.855	4.001
2022-08-30 15:45	5892306	8.341	-125.737	269.727	18.808	444.603	504.234	0.246	0.328	8.524	18.808	4.249
2022-08-30 16:00	5893206	8.352	-126.34	261.277	18.769	444.274	504.292	0.246	0.328	8.599	18.769	4.546
2022-08-30 16:15	5894106	8.337	-125.482	270.483	18.822	445.357	504.938	0.246	0.328	8.528	18.822	4.566
2022-08-30 16:30	5895006	8.341	-125.732	274.147	18.873	445.919	505.022	0.246	0.328	8.531	18.873	4.775
2022-08-30 16:45	5895906	8.329	-125.117	276.369	18.914	446.413	505.127	0.246	0.328	8.557	18.914	5.034
2022-08-30 17:00	5896806	8.346	-126.092	270.209	19.003	447.213	505.066	0.246	0.328	8.557	19.003	6.225
2022-08-30 17:15	5897706	8.345	-126.073	274.209	19.036	447.356	504.863	0.246	0.328	8.651	19.036	4.941
2022-08-30 17:30	5898606	8.344	-125.992	272.483	19.009	447.287	505.084	0.246	0.328	8.580	19.009	5.128
2022-08-30 17:45	5899506	8.340	-125.782	272.989	19.021	447.655	505.367	0.246	0.328	8.614	19.021	6.009
2022-08-30 18:00	5900406	8.341	-125.859	263.075	19.058	448.271	505.665	0.246	0.329	8.621	19.058	4.632
2022-08-30 18:15	5901306	8.344	-126.011	273.852	19.062	448.479	505.853	0.246	0.329	8.618	19.062	4.18
2022-08-30 18:30	5902206	8.344	-125.999	276.224	19.079	448.662	505.868	0.246	0.329	8.607	19.079	5.103
2022-08-30 18:45	5903106	8.332	-125.36	277.759	19.084	448.841	506.015	0.246	0.329	8.594	19.084	4.36
2022-08-30 19:00	5904006	8.343	-125.971	274.276	19.092	448.52	505.572	0.246	0.329	8.590	19.092	4.48
2022-08-30 19:15	5904906	8.336	-125.587	278.017	19.106	448.713	505.636	0.246	0.329	8.476	19.106	4.443
2022-08-30 19:30	5905806	8.323	-124.822	277.137	19.098	448.793	505.811	0.246	0.329	8.350	19.098	3.898
2022-08-30 19:45	5906706	8.275	-122.132	277.623	19.075	448.713	505.976	0.246	0.329	8.295	19.075	4.058
2022-08-30 20:00	5907606	8.304	-123.72	267.157	19.065	448.976	506.376	0.247	0.329	8.168	19.065	4.785
2022-08-30 20:15	5908506	8.278	-122.254	276.498	19.065	449.739	507.239	0.247	0.330	8.034	19.065	3.162
2022-08-30 20:30	5909406	8.262	-121.35	280.449	19.05	449.159	506.744	0.247	0.329	7.831	19.05	3.713
2022-08-30 20:45	5910306	8.271	-121.872	281.839	19.042	449.404	507.111	0.247	0.330	7.990	19.042	3.454
2022-08-30 21:00	5911206	8.283	-122.59	274.655	19.084	449.494	506.755	0.247	0.329	7.768	19.084	3.627
2022-08-30 21:15	5912106	8.268	-121.748	281.581	19.197	450.928	507.138	0.247	0.330	7.717	19.197	3.116
2022-08-30 21:30	5913006	8.275	-122.213	279.395	19.27	451.685	507.197	0.247	0.330	7.691	19.27	2.89
2022-08-30 21:45	5913906	8.260	-121.365	276.839	19.303	452.28	507.507	0.247	0.330	7.739	19.303	2.863
2022-08-30 22:00	5914806	8.246	-120.573	264.038	19.294	452.8	508.188	0.248	0.330	7.510	19.294	3.043
2022-08-30 22:15	5915706	8.214	-118.721	272.607	19.272	453.119	508.786	0.248	0.331	7.304	19.272	3.363
2022-08-30 22:30	5916606	8.182	-116.951	275.871	19.256	453.131	508.974	0.248	0.331	7.214	19.256	2.661
2022-08-30 22:45	5917506	8.201	-117.986	278.534	19.242	453.22	509.221	0.248	0.331	7.068	19.242	2.747

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-30 23:00	5918406	8.213	-118.647	274.491	19.207	452.204	508.463	0.248	0.331	6.844	19.207	3.35
2022-08-30 23:15	5919306	8.175	-116.498	277.416	19.199	452.162	508.501	0.248	0.331	6.864	19.199	2.535
2022-08-30 23:30	5920206	8.156	-115.416	277.688	19.149	451.725	508.561	0.248	0.331	6.854	19.149	2.695
2022-08-30 23:45	5921106	8.139	-114.46	274.934	19.093	451.198	508.572	0.248	0.331	6.816	19.093	2.833
2022-08-31 00:00	5922006	8.214	-118.635	261.161	19.054	450.965	508.74	0.248	0.331	6.901	19.054	2.688
2022-08-31 00:15	5922906	8.165	-115.893	273.737	19.023	450.785	508.875	0.248	0.331	6.874	19.023	2.766
2022-08-31 00:30	5923806	8.196	-117.621	277.147	19.001	450.75	509.083	0.248	0.331	6.875	19.001	2.823
2022-08-31 00:45	5924706	8.153	-115.178	279.309	18.948	450.465	509.339	0.248	0.331	6.817	18.948	2.549
2022-08-31 01:00	5925606	8.191	-117.311	276.288	18.937	449.629	508.518	0.248	0.331	6.697	18.937	2.552
2022-08-31 01:15	5926506	8.149	-114.956	279.879	18.92	449.336	508.375	0.248	0.330	6.818	18.92	2.615
2022-08-31 01:30	5927406	8.111	-112.793	278.63	18.872	448.885	508.392	0.248	0.330	6.783	18.872	2.427
2022-08-31 01:45	5928306	8.107	-112.538	277.509	18.84	448.474	508.271	0.248	0.330	6.870	18.84	2.567
2022-08-31 02:00	5929206	8.193	-117.333	270.752	18.764	447.721	508.253	0.248	0.330	6.739	18.764	2.68
2022-08-31 02:15	5930106	8.156	-115.247	278.146	18.717	447.249	508.245	0.248	0.330	6.777	18.717	2.868
2022-08-31 02:30	5931006	8.192	-117.254	281.035	18.704	447.561	508.744	0.248	0.331	6.823	18.704	2.404
2022-08-31 02:45	5931906	8.182	-116.689	282.277	18.679	447.016	508.397	0.248	0.330	6.673	18.679	2.48
2022-08-31 03:00	5932806	8.197	-117.552	277.015	18.624	446.085	507.944	0.247	0.330	6.682	18.624	3.681
2022-08-31 03:15	5933706	8.162	-115.542	281.369	18.612	446.085	508.078	0.247	0.330	6.706	18.612	2.485
2022-08-31 03:30	5934606	8.166	-115.75	279.447	18.594	445.888	508.052	0.247	0.330	6.701	18.594	2.43
2022-08-31 03:45	5935506	8.135	-114.009	279.965	18.566	445.595	508.026	0.247	0.330	6.599	18.566	2.379
2022-08-31 04:00	5936406	8.144	-114.486	276.307	18.491	445.047	508.235	0.248	0.330	***6.457***	18.491	2.399
2022-08-31 04:15	5937306	8.155	-115.113	279.316	18.47	445.198	508.635	0.248	0.331	6.576	18.47	2.55
2022-08-31 04:30	5938206	8.132	-113.783	283.131	18.434	445.086	508.91	0.248	0.331	***6.443***	18.434	2.422
2022-08-31 04:45	5939106	8.140	-114.233	285.694	18.414	445.207	509.264	0.248	0.331	***6.312***	18.414	2.369
2022-08-31 05:00	5940006	8.173	-116.053	278.539	18.387	444.248	508.474	0.248	0.331	***6.232***	18.387	2.385
2022-08-31 05:15	5940906	8.136	-113.976	283.322	18.38	444.171	508.456	0.248	0.330	***6.356***	18.38	2.288
2022-08-31 05:30	5941806	8.103	-112.119	281.915	18.35	444.03	508.631	0.248	0.331	***6.234***	18.35	2.263
2022-08-31 05:45	5942706	8.115	-112.762	281.259	18.32	443.761	508.66	0.248	0.331	***6.188***	18.32	2.15
2022-08-31 06:00	5943606	8.116	-112.815	274.393	18.247	443.178	508.806	0.248	0.331	***6.035***	18.247	2.405
2022-08-31 06:15	5944506	8.122	-113.127	281.038	18.235	443.186	508.946	0.248	0.331	***6.102***	18.235	2.264
2022-08-31 06:30	5945406	8.119	-112.979	284.435	18.207	443.247	509.328	0.248	0.331	***6.030***	18.207	2.144
2022-08-31 06:45	5946306	8.117	-112.86	286.638	18.168	442.435	508.834	0.248	0.331	***5.940***	18.168	2.308
2022-08-31 07:00	5947206	8.129	-113.521	280.997	18.137	442.014	508.698	0.248	0.331	***6.077***	18.137	2.378
2022-08-31 07:15	5948106	8.042	-108.588	285.019	18.089	441.609	508.767	0.248	0.331	***5.940***	18.089	2.406
2022-08-31 07:30	5949006	8.070	-110.178	282.976	18.055	441.182	508.652	0.248	0.331	***6.053***	18.055	2.237
2022-08-31 07:45	5949906	8.079	-110.645	281.142	18.025	440.896	508.661	0.248	0.331	***6.028***	18.025	2.232
2022-08-31 08:00	5950806	8.144	-114.255	270.943	17.966	440.262	508.59	0.248	0.331	***6.047***	17.966	2.566
2022-08-31 08:15	5951706	8.128	-113.392	278.811	17.954	440.342	508.819	0.248	0.331	***6.108***	17.954	2.233
2022-08-31 08:30	5952606	8.103	-111.959	281.862	17.916	440.061	508.918	0.248	0.331	***6.142***	17.916	2.314
2022-08-31 08:45	5953506	8.130	-113.482	282.709	17.908	440.133	509.091	0.248	0.331	***6.120***	17.908	2.403
2022-08-31 09:00	5954406	8.148	-114.493	277.53	17.889	439.385	508.439	0.248	0.330	***5.997***	17.889	2.381
2022-08-31 09:15	5955306	8.142	-114.131	281.572	17.898	439.357	508.304	0.247	0.330	***6.190***	17.898	2.362
2022-08-31 09:30	5956206	8.116	-112.689	281.717	17.889	439.375	508.428	0.248	0.330	***6.173***	17.889	2.235
2022-08-31 09:45	5957106	8.116	-112.691	280.275	17.88	439.197	508.326	0.248	0.330	***6.218***	17.88	2.206
2022-08-31 10:00	5958006	8.151	-114.646	270.812	17.873	439.368	508.605	0.248	0.331	***6.100***	17.873	2.636
2022-08-31 10:15	5958906	8.133	-113.647	278.577	17.877	439.847	509.105	0.248	0.331	***6.163***	17.877	2.062
2022-08-31 10:30	5959806	8.125	-113.151	280.573	17.878	440.382	509.718	0.248	0.331	***5.938***	17.878	2.45
2022-08-31 10:45	5960706	8.117	-112.729	281.116	17.879	440.44	509.773	0.248	0.331	***5.884***	17.879	2.211

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-31 11:00	5961606	8.143	-114.167	276.911	17.885	439.628	508.768	0.248	0.331	***5.878***	17.885	3.137
2022-08-31 11:15	5962506	8.114	-112.565	280.747	17.888	439.715	508.832	0.248	0.331	***5.979***	17.888	2.969
2022-08-31 11:30	5963406	8.097	-111.635	283.856	17.893	439.931	509.027	0.248	0.331	***5.843***	17.893	2.809
2022-08-31 11:45	5964306	8.094	-111.454	286.392	17.908	440.088	509.044	0.248	0.331	***5.767***	17.908	2.814
2022-08-31 12:00	5965206	8.063	-109.739	285.527	17.944	441.089	509.796	0.248	0.331	***5.713***	17.944	2.203
2022-08-31 12:15	5966106	8.091	-111.296	284.862	18.025	441.668	509.547	0.248	0.331	***5.589***	18.025	2.218
2022-08-31 12:30	5967006	8.111	-112.441	283.848	18.082	442.223	509.55	0.248	0.331	***5.925***	18.082	2.627
2022-08-31 12:45	5967906	8.111	-112.505	283.36	18.129	442.626	509.493	0.248	0.331	***5.932***	18.129	2.587
2022-08-31 13:00	5968806	8.135	-113.859	277.08	18.192	442.645	508.807	0.248	0.331	***6.069***	18.192	2.52
2022-08-31 13:15	5969706	8.150	-114.727	281.195	18.26	443.105	508.58	0.248	0.331	***6.243***	18.26	2.265
2022-08-31 13:30	5970606	8.167	-115.767	279.559	18.386	444.321	508.572	0.248	0.331	6.546	18.386	2.483
2022-08-31 13:45	5971506	8.173	-116.143	279.443	18.533	445.806	508.632	0.248	0.331	6.630	18.533	3.051
2022-08-31 14:00	5972406	8.189	-117.092	268.769	18.617	446.833	508.873	0.248	0.331	6.934	18.617	2.671
2022-08-31 14:15	5973306	8.176	-116.367	274.207	18.713	447.669	508.766	0.248	0.331	6.962	18.713	2.599
2022-08-31 14:30	5974206	8.177	-116.487	276.617	18.811	448.774	508.937	0.248	0.331	6.759	18.811	2.389
2022-08-31 14:45	5975106	8.170	-116.112	276.853	18.902	449.62	508.893	0.248	0.331	7.006	18.902	2.656
2022-08-31 15:00	5976006	8.230	-119.548	251.76	18.953	449.768	508.493	0.248	0.331	7.190	18.953	3.606
2022-08-31 15:15	5976906	8.230	-119.519	263.416	18.98	450.042	508.513	0.248	0.331	7.481	18.98	3.468
2022-08-31 15:30	5977806	8.230	-119.536	269.031	19.008	450.303	508.495	0.248	0.331	7.751	19.008	2.997
2022-08-31 15:45	5978706	8.181	-116.768	271.11	19.037	450.766	508.707	0.248	0.331	7.739	19.037	2.783
2022-08-31 16:00	5979606	8.187	-117.116	268.089	19.04	450.959	508.894	0.248	0.331	7.598	19.04	3.079
2022-08-31 16:15	5980506	8.195	-117.576	272.779	19.046	450.983	508.854	0.248	0.331	7.436	19.046	2.737
2022-08-31 16:30	5981406	8.178	-116.639	275.518	19.055	451.029	508.804	0.248	0.331	7.441	19.055	2.68
2022-08-31 16:45	5982306	8.226	-119.324	275.158	19.068	450.64	508.227	0.248	0.330	8.254	19.068	3.083
2022-08-31 17:00	5983206	8.268	-121.734	270.323	19.06	450.485	508.135	0.248	0.330	8.022	19.06	3.192
2022-08-31 17:15	5984106	8.228	-119.457	274.574	19.076	450.655	508.15	0.248	0.330	7.862	19.076	3.291
2022-08-31 17:30	5985006	8.198	-117.786	275.082	19.067	450.599	508.191	0.248	0.330	7.892	19.067	3.281
2022-08-31 17:45	5985906	8.264	-121.481	273.787	19.03	450.066	507.994	0.247	0.330	7.916	19.03	3.391
2022-08-31 18:00	5986806	8.275	-122.094	270.566	18.977	449.754	508.223	0.248	0.330	8.039	18.977	3.638
2022-08-31 18:15	5987706	8.304	-123.67	271.904	18.945	449.642	508.449	0.248	0.330	8.092	18.945	4.183
2022-08-31 18:30	5988606	8.297	-123.301	276.562	18.909	449.426	508.599	0.248	0.331	8.126	18.909	3.806
2022-08-31 18:45	5989506	8.307	-123.847	278.711	18.893	449.526	508.88	0.248	0.331	8.227	18.893	3.728
2022-08-31 19:00	5990406	8.306	-123.754	274.908	18.864	448.977	508.577	0.248	0.331	8.149	18.864	3.827
2022-08-31 19:15	5991306	8.304	-123.63	279.216	18.836	448.505	508.358	0.248	0.330	8.154	18.836	3.425
2022-08-31 19:30	5992206	8.309	-123.906	279.278	18.828	448.753	508.723	0.248	0.331	8.204	18.828	3.71
2022-08-31 19:45	5993106	8.284	-122.528	279.381	18.831	448.727	508.658	0.248	0.331	8.172	18.831	3.705
2022-08-31 20:00	5994006	8.258	-121.078	272.369	18.827	449.132	509.163	0.248	0.331	8.041	18.827	3.616
2022-08-31 20:15	5994906	8.257	-121	279.812	18.832	449.649	509.698	0.248	0.331	7.899	18.832	3.069
2022-08-31 20:30	5995806	8.235	-119.779	282.425	18.832	450.013	510.112	0.249	0.332	7.517	18.832	2.589
2022-08-31 20:45	5996706	8.218	-118.783	283	18.831	450.106	510.219	0.249	0.332	7.357	18.831	2.561
2022-08-31 21:00	5997606	8.209	-118.31	276.872	18.83	449.888	509.985	0.248	0.331	7.096	18.83	4.068
2022-08-31 21:15	5998506	8.153	-115.132	282.692	18.826	450.018	510.176	0.249	0.332	6.903	18.826	3.236
2022-08-31 21:30	5999406	8.212	-118.43	285.696	18.799	449.34	509.708	0.248	0.331	7.650	18.799	3.239
2022-08-31 21:45	6000306	8.223	-119.033	288.314	18.764	449.11	509.84	0.248	0.331	7.965	18.764	3.679
2022-08-31 22:00	6001206	8.202	-117.879	284.073	18.742	448.966	509.914	0.248	0.331	7.820	18.742	4.794
2022-08-31 22:15	6002106	8.227	-119.276	284.378	18.777	449.165	509.758	0.248	0.331	7.779	18.777	3.702
2022-08-31 22:30	6003006	8.252	-120.695	284.073	18.793	449.396	509.836	0.248	0.331	7.840	18.793	3.643
2022-08-31 22:45	6003906	8.274	-121.934	284.292	18.785	449.406	509.943	0.248	0.331	7.771	18.785	3.519

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-08-31 23:00	6004806	8.266	-121.472	278.765	18.77	449	509.647	0.248	0.331	7.691	18.77	3.399
2022-08-31 23:15	6005706	8.271	-121.739	282.304	18.76	448.791	509.521	0.248	0.331	7.844	18.76	3.343
2022-08-31 23:30	6006606	8.237	-119.805	281.035	18.746	448.857	509.75	0.248	0.331	7.583	18.746	3.119
2022-08-31 23:45	6007506	8.214	-118.518	280.794	18.742	448.937	509.878	0.248	0.331	7.468	18.742	3.119
2022-09-01 00:00	6008406	8.214	-118.542	277.528	18.731	449.069	510.153	0.249	0.332	7.501	18.731	3.399
2022-09-01 00:15	6009306	8.212	-118.437	280.191	18.715	449.223	510.507	0.249	0.332	7.266	18.715	3.074
2022-09-01 00:30	6010206	8.225	-119.154	283.317	18.711	449.265	510.593	0.249	0.332	7.151	18.711	3.069
2022-09-01 00:45	6011106	8.210	-118.31	283.779	18.703	449.355	510.792	0.249	0.332	7.098	18.703	3.613
2022-09-01 01:00	6012006	8.215	-118.561	278.515	18.662	448.638	510.433	0.249	0.332	6.952	18.662	3.413
2022-09-01 01:15	6012906	8.193	-117.307	283.424	18.642	448.474	510.463	0.249	0.332	6.897	18.642	3.021
2022-09-01 01:30	6013806	8.160	-115.449	282.504	18.626	448.457	510.627	0.249	0.332	6.969	18.626	2.751
2022-09-01 01:45	6014706	8.139	-114.231	282.43	18.606	448.604	511.017	0.249	0.332	6.666	18.606	3.436
2022-09-01 02:00	6015606	8.091	-111.52	279.562	18.554	448.636	511.631	0.249	0.333	***6.235***	18.554	3.033
2022-09-01 02:15	6016506	8.108	-112.462	282.745	18.529	448.217	511.427	0.249	0.332	***6.224***	18.529	2.921
2022-09-01 02:30	6017406	8.135	-113.959	285.463	18.42	446.733	510.951	0.249	0.332	6.599	18.42	3.509
2022-09-01 02:45	6018306	8.128	-113.523	286.063	18.365	446.019	510.747	0.249	0.332	6.829	18.365	3.229
2022-09-01 03:00	6019206	8.205	-117.867	279.566	18.371	445.915	510.559	0.249	0.332	7.140	18.371	5.163
2022-09-01 03:15	6020106	8.206	-117.993	285.432	18.476	446.882	510.496	0.249	0.332	7.478	18.476	3.227
2022-09-01 03:30	6021006	8.222	-118.885	283.276	18.472	446.977	510.649	0.249	0.332	7.248	18.472	2.977
2022-09-01 03:45	6021906	8.221	-118.783	281.467	18.406	446.225	510.521	0.249	0.332	7.405	18.406	3.32
2022-09-01 04:00	6022806	8.266	-121.315	270.9	18.384	446.157	510.688	0.249	0.332	7.439	18.384	3.32
2022-09-01 04:15	6023706	8.249	-120.335	279.092	18.375	446.195	510.839	0.249	0.332	7.471	18.375	3.431
2022-09-01 04:30	6024606	8.239	-119.76	282.48	18.362	446.088	510.857	0.249	0.332	7.576	18.362	3.25
2022-09-01 04:45	6025506	8.240	-119.798	284.33	18.311	445.573	510.84	0.249	0.332	7.547	18.311	3.443
2022-09-01 05:00	6026406	8.273	-121.66	280.215	18.246	444.647	510.503	0.249	0.332	7.551	18.246	3.271
2022-09-01 05:15	6027306	8.270	-121.486	282.594	18.19	443.996	510.387	0.249	0.332	7.714	18.19	3.321
2022-09-01 05:30	6028206	8.255	-120.58	281.87	18.145	443.512	510.335	0.249	0.332	7.652	18.145	3.965
2022-09-01 05:45	6029106	8.232	-119.281	280.251	18.106	443.235	510.451	0.249	0.332	7.505	18.106	3.057
2022-09-01 06:00	6030006	8.275	-121.655	277.335	18.008	442.524	510.726	0.249	0.332	7.516	18.008	3.961
2022-09-01 06:15	6030906	8.235	-119.379	283.806	17.969	442.356	510.975	0.249	0.332	7.576	17.969	3.98
2022-09-01 06:30	6031806	8.220	-118.527	287.754	17.91	441.596	510.766	0.249	0.332	7.627	17.91	3.762
2022-09-01 06:45	6032706	8.276	-121.651	290.865	17.894	441.435	510.756	0.249	0.332	7.607	17.894	3.509
2022-09-01 07:00	6033606	8.241	-119.684	288.603	17.895	441.53	510.861	0.249	0.332	7.467	17.895	3.935
2022-09-01 07:15	6034506	8.253	-120.387	288.398	17.892	441.548	510.915	0.249	0.332	7.230	17.892	2.917
2022-09-01 07:30	6035406	8.217	-118.325	285.501	17.869	441.625	511.26	0.249	0.332	6.843	17.869	2.738
2022-09-01 07:45	6036306	8.220	-118.52	282.921	17.864	441.387	511.039	0.249	0.332	7.011	17.864	2.624
2022-09-01 08:00	6037206	8.204	-117.588	277.845	17.8	440.966	511.279	0.249	0.332	6.651	17.8	2.589
2022-09-01 08:15	6038106	8.203	-117.533	280.215	17.81	441.435	511.705	0.249	0.333	6.860	17.81	2.635
2022-09-01 08:30	6039006	8.194	-117.059	282.95	17.819	441.592	511.785	0.249	0.333	6.654	17.819	2.719
2022-09-01 08:45	6039906	8.179	-116.179	283.941	17.81	441.511	511.794	0.249	0.333	6.617	17.81	2.454
2022-09-01 09:00	6040806	8.197	-117.207	278.928	17.817	441.205	511.356	0.249	0.332	6.560	17.817	2.552
2022-09-01 09:15	6041706	8.206	-117.733	282.22	17.814	440.801	510.926	0.249	0.332	6.720	17.814	2.77
2022-09-01 09:30	6042606	8.171	-115.681	280.043	17.728	439.673	510.592	0.249	0.332	6.902	17.728	2.847
2022-09-01 09:45	6043506	8.195	-117.011	277.607	17.614	438.178	510.141	0.248	0.332	7.260	17.614	3.086
2022-09-01 10:00	6044406	8.247	-119.925	272.547	17.588	438.12	510.374	0.248	0.332	7.471	17.588	3.279
2022-09-01 10:15	6045306	8.256	-120.437	276.973	17.584	438.459	510.812	0.249	0.332	7.453	17.584	3.796
2022-09-01 10:30	6046206	8.249	-120.037	280.22	17.6	438.871	511.112	0.249	0.332	7.336	17.6	2.879
2022-09-01 10:45	6047106	8.245	-119.798	281.035	17.615	439.153	511.268	0.249	0.332	7.236	17.615	2.727

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-01 11:00	6048006	8.242	-119.646	273.861	17.628	438.82	510.732	0.249	0.332	6.903	17.628	3.181
2022-09-01 11:15	6048906	8.238	-119.469	278.968	17.659	439.021	510.621	0.249	0.332	7.031	17.659	2.58
2022-09-01 11:30	6049806	8.236	-119.336	276.529	17.689	439.552	510.894	0.249	0.332	7.090	17.689	2.386
2022-09-01 11:45	6050706	8.221	-118.506	276.128	17.719	439.774	510.806	0.249	0.332	6.872	17.719	2.22
2022-09-01 12:00	6051606	8.201	-117.428	272.228	17.755	440.35	511.077	0.249	0.332	6.956	17.755	2.38
2022-09-01 12:15	6052506	8.217	-118.351	277.495	17.811	441.056	511.26	0.249	0.332	6.832	17.811	2.129
2022-09-01 12:30	6053406	8.197	-117.238	279.309	17.877	441.62	511.167	0.249	0.332	6.722	17.877	2.966
2022-09-01 12:45	6054306	8.208	-117.848	279.55	17.948	442.297	511.144	0.249	0.332	6.768	17.948	2.679
2022-09-01 13:00	6055206	8.227	-118.992	274.352	18.034	442.77	510.723	0.249	0.332	6.846	18.034	2.936
2022-09-01 13:15	6056106	8.237	-119.581	277.752	18.111	443.385	510.568	0.249	0.332	7.111	18.111	2.89
2022-09-01 13:30	6057006	8.236	-119.543	276.109	18.231	444.341	510.316	0.249	0.332	7.293	18.231	3.158
2022-09-01 13:45	6057906	8.241	-119.908	275.485	18.371	445.709	510.327	0.249	0.332	7.243	18.371	2.952
2022-09-01 14:00	6058806	8.242	-120.006	269.479	18.467	447.026	510.758	0.249	0.332	7.327	18.467	2.489
2022-09-01 14:15	6059706	8.236	-119.708	275.046	18.581	447.986	510.584	0.249	0.332	7.569	18.581	2.554
2022-09-01 14:30	6060606	8.231	-119.481	277.69	18.668	449.148	510.947	0.249	0.332	7.205	18.668	2.454
2022-09-01 14:45	6061506	8.222	-119.004	277.957	18.738	449.91	511.029	0.249	0.332	7.400	18.738	2.516
2022-09-01 15:00	6062406	8.244	-120.249	268.69	18.814	450.206	510.527	0.249	0.332	7.197	18.814	2.732
2022-09-01 15:15	6063306	8.221	-118.966	275.079	18.854	450.34	510.237	0.249	0.332	7.432	18.854	2.766
2022-09-01 15:30	6064206	8.221	-119.016	273.844	18.899	450.766	510.22	0.249	0.332	7.622	18.899	3.088
2022-09-01 15:45	6065106	8.234	-119.734	274.481	18.936	450.571	509.591	0.248	0.331	7.775	18.936	2.786
2022-09-01 16:00	6066006	8.296	-123.253	264.99	18.933	450.32	509.348	0.248	0.331	8.229	18.933	3.657
2022-09-01 16:15	6066906	8.294	-123.134	272.273	18.918	450.115	509.28	0.248	0.331	8.128	18.918	3.349
2022-09-01 16:30	6067806	8.298	-123.334	275.201	18.902	450.067	509.401	0.248	0.331	8.121	18.902	3.657
2022-09-01 16:45	6068706	8.295	-123.127	275.828	18.852	449.623	509.45	0.248	0.331	8.123	18.852	3.707
2022-09-01 17:00	6069606	8.314	-124.195	270.383	18.836	449.519	509.505	0.248	0.331	8.154	18.836	3.887
2022-09-01 17:15	6070506	8.312	-124.133	277.597	18.866	449.697	509.38	0.248	0.331	8.176	18.866	4.816
2022-09-01 17:30	6071406	8.300	-123.441	277.747	18.896	449.588	508.925	0.248	0.331	8.342	18.896	7.103
2022-09-01 17:45	6072306	8.314	-124.216	276.515	18.89	449.711	509.132	0.248	0.331	8.131	18.89	3.528
2022-09-01 18:00	6073206	8.340	-125.699	261.797	18.912	450.046	509.266	0.248	0.331	8.448	18.912	3.467
2022-09-01 18:15	6074106	8.304	-123.665	271.739	18.924	450.563	509.718	0.248	0.331	8.293	18.924	3.463
2022-09-01 18:30	6075006	8.309	-123.98	275.01	18.945	450.818	509.776	0.248	0.331	8.448	18.945	2.93
2022-09-01 18:45	6075906	8.293	-123.105	277.254	18.959	451.415	510.29	0.249	0.332	8.123	18.959	2.752
2022-09-01 19:00	6076806	8.292	-123.007	273.515	18.979	451.136	509.761	0.248	0.331	7.927	18.979	3.13
2022-09-01 19:15	6077706	8.273	-121.958	278.78	18.993	451.52	510.036	0.248	0.332	7.991	18.993	2.735
2022-09-01 19:30	6078606	8.261	-121.303	277.676	18.993	451.668	510.202	0.249	0.332	7.833	18.993	2.577
2022-09-01 19:45	6079506	8.252	-120.783	277.478	18.983	451.71	510.366	0.249	0.332	7.669	18.983	2.634
2022-09-01 20:00	6080406	8.249	-120.606	269.977	18.96	451.678	510.582	0.249	0.332	7.558	18.96	2.631
2022-09-01 20:15	6081306	8.238	-119.948	276.801	18.939	451.799	510.952	0.249	0.332	7.464	18.939	2.398
2022-09-01 20:30	6082206	8.215	-118.632	279.18	18.9	451.355	510.876	0.249	0.332	7.331	18.9	2.558
2022-09-01 20:45	6083106	8.195	-117.495	279.538	18.855	450.728	510.663	0.249	0.332	7.267	18.855	2.397
2022-09-01 21:00	6084006	8.240	-120.06	275.492	18.845	450.851	510.912	0.249	0.332	7.406	18.845	2.574
2022-09-01 21:15	6084906	8.197	-117.605	279.075	18.814	450.617	510.993	0.249	0.332	7.305	18.814	2.54
2022-09-01 21:30	6085806	8.209	-118.253	277.614	18.785	450.408	511.08	0.249	0.332	7.263	18.785	2.417
2022-09-01 21:45	6086706	8.203	-117.929	277.118	18.721	450.105	511.447	0.249	0.332	7.166	18.721	2.609
2022-09-01 22:00	6087606	8.210	-118.253	274.533	18.665	449.297	511.146	0.249	0.332	7.080	18.665	2.955
2022-09-01 22:15	6088506	8.175	-116.296	280.034	18.632	449.608	511.865	0.249	0.333	6.986	18.632	2.978
2022-09-01 22:30	6089406	8.172	-116.084	285.594	18.567	449.115	512.025	0.249	0.333	6.885	18.567	3.585
2022-09-01 22:45	6090306	8.170	-115.938	286.445	18.509	448.362	511.821	0.249	0.333	***6.439***	18.509	3.218

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-01 23:00	6091206	8.190	-117.061	282.194	18.462	447.218	511.038	0.249	0.332	6.561	18.462	2.845
2022-09-01 23:15	6092106	8.185	-116.737	283.529	18.363	446.531	511.35	0.249	0.332	6.818	18.363	3.156
2022-09-01 23:30	6093006	8.172	-115.964	279.991	18.285	445.838	511.427	0.249	0.332	6.899	18.285	2.825
2022-09-01 23:45	6093906	8.199	-117.519	277.647	18.269	445.643	511.384	0.249	0.332	7.282	18.269	2.68
2022-09-02 00:00	6094806	8.228	-119.135	265.984	18.25	445.754	511.727	0.249	0.333	7.191	18.25	2.811
2022-09-02 00:15	6095706	8.217	-118.506	275.335	18.229	445.93	512.167	0.249	0.333	7.040	18.229	2.583
2022-09-02 00:30	6096606	8.196	-117.331	280.003	18.212	445.854	512.267	0.250	0.333	6.966	18.212	2.481
2022-09-02 00:45	6097506	8.185	-116.67	281.169	18.177	445.551	512.317	0.250	0.333	6.923	18.177	2.549
2022-09-02 01:00	6098406	8.194	-117.149	278.684	18.15	444.991	511.98	0.249	0.333	6.872	18.15	2.498
2022-09-02 01:15	6099306	8.191	-116.985	282.27	18.126	444.93	512.18	0.249	0.333	6.777	18.126	2.506
2022-09-02 01:30	6100206	8.174	-115.998	280.165	18.112	444.931	512.334	0.250	0.333	6.805	18.112	2.633
2022-09-02 01:45	6101106	8.182	-116.475	278.901	18.1	444.936	512.47	0.250	0.333	6.755	18.1	2.374
2022-09-02 02:00	6102006	8.185	-116.606	269.968	18.062	444.678	512.607	0.250	0.333	6.626	18.062	2.372
2022-09-02 02:15	6102906	8.168	-115.671	277.297	18.04	444.902	513.119	0.250	0.334	6.664	18.04	2.318
2022-09-02 02:30	6103806	8.161	-115.261	280.909	18.026	444.881	513.245	0.250	0.334	6.539	18.026	2.24
2022-09-02 02:45	6104706	8.129	-113.43	282.642	17.951	443.885	512.942	0.250	0.333	***6.411***	17.951	3.052
2022-09-02 03:00	6105606	8.162	-115.261	278.763	17.907	443.279	512.75	0.250	0.333	***6.453***	17.907	2.533
2022-09-02 03:15	6106506	8.140	-114.009	282.308	17.912	443.394	512.822	0.250	0.333	6.509	17.912	2.248
2022-09-02 03:30	6107406	8.114	-112.541	280.136	17.868	442.865	512.708	0.250	0.333	***6.321***	17.868	2.291
2022-09-02 03:45	6108306	8.143	-114.186	279.471	17.834	442.59	512.778	0.250	0.333	6.581	17.834	2.418
2022-09-02 04:00	6109206	8.182	-116.355	275.68	17.765	441.888	512.748	0.250	0.333	***6.427***	17.765	3.105
2022-09-02 04:15	6110106	8.163	-115.247	281.107	17.761	442.07	513	0.250	0.333	***6.385***	17.761	3.276
2022-09-02 04:30	6111006	8.145	-114.253	283.307	17.744	442.143	513.281	0.250	0.334	6.529	17.744	3.153
2022-09-02 04:45	6111906	8.097	-111.539	287.108	17.7	442.28	513.94	0.250	0.334	6.504	17.7	3.201
2022-09-02 05:00	6112806	8.119	-112.755	285.682	17.635	440.662	512.803	0.250	0.333	***6.436***	17.635	2.589
2022-09-02 05:15	6113706	8.126	-113.158	285.453	17.629	440.739	512.957	0.250	0.333	***6.434***	17.629	2.47
2022-09-02 05:30	6114606	8.137	-113.74	283.083	17.598	440.418	512.932	0.250	0.333	***6.448***	17.598	2.364
2022-09-02 05:45	6115506	8.146	-114.26	282.368	17.592	440.344	512.918	0.250	0.333	***6.406***	17.592	2.237
2022-09-02 06:00	6116406	8.157	-114.868	277.981	17.541	439.785	512.848	0.250	0.333	***6.270***	17.541	2.32
2022-09-02 06:15	6117306	8.140	-113.842	281.61	17.488	439.337	512.938	0.250	0.333	***6.417***	17.488	2.241
2022-09-02 06:30	6118206	8.157	-114.803	282.83	17.464	439.356	513.234	0.250	0.334	***6.445***	17.464	2.205
2022-09-02 06:45	6119106	8.130	-113.27	284.225	17.437	439.044	513.168	0.250	0.334	***6.258***	17.437	2.194
2022-09-02 07:00	6120006	8.146	-114.148	281.648	17.404	438.459	512.864	0.250	0.333	***6.185***	17.404	2.363
2022-09-02 07:15	6120906	8.138	-113.714	284.902	17.383	438.17	512.767	0.250	0.333	***6.210***	17.383	2.469
2022-09-02 07:30	6121806	8.102	-111.656	283.329	17.343	437.792	512.782	0.250	0.333	***6.267***	17.343	2.457
2022-09-02 07:45	6122706	8.134	-113.468	282.478	17.299	437.371	512.798	0.250	0.333	***6.226***	17.299	2.297
2022-09-02 08:00	6123606	8.168	-115.373	277.12	17.258	436.874	512.691	0.250	0.333	***6.352***	17.258	3.247
2022-09-02 08:15	6124506	8.115	-112.34	282.377	17.24	437.041	513.094	0.250	0.334	***6.270***	17.24	2.702
2022-09-02 08:30	6125406	8.122	-112.739	284.28	17.231	437.055	513.207	0.250	0.334	6.622	17.231	2.599
2022-09-02 08:45	6126306	8.074	-110.071	285.575	17.213	436.906	513.238	0.250	0.334	6.510	17.213	2.695
2022-09-02 09:00	6127206	8.143	-113.904	284.43	17.22	436.667	512.886	0.250	0.333	6.588	17.22	2.309
2022-09-02 09:15	6128106	8.149	-114.295	286.268	17.224	436.532	512.677	0.250	0.333	***6.412***	17.224	2.684
2022-09-02 09:30	6129006	8.140	-113.773	282.933	17.237	436.61	512.615	0.250	0.333	6.642	17.237	2.233
2022-09-02 09:45	6129906	8.150	-114.315	279.831	17.257	436.818	512.633	0.250	0.333	***6.420***	17.257	2.321
2022-09-02 10:00	6130806	8.168	-115.385	274.1	17.28	437.143	512.75	0.250	0.333	6.594	17.28	3.176
2022-09-02 10:15	6131706	8.172	-115.597	279.662	17.315	437.603	512.884	0.250	0.333	6.634	17.315	2.646
2022-09-02 10:30	6132606	8.151	-114.405	285.119	17.338	437.863	512.925	0.250	0.333	6.806	17.338	2.551
2022-09-02 10:45	6133506	8.120	-112.669	287.146	17.35	438.142	513.114	0.250	0.334	6.765	17.35	2.529

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-02 11:00	6134406	8.141	-113.904	287.198	17.374	438.09	512.782	0.250	0.333	6.650	17.374	2.147
2022-09-02 11:15	6135306	8.143	-113.978	286.745	17.408	438.416	512.777	0.250	0.333	6.573	17.408	2.112
2022-09-02 11:30	6136206	8.144	-114.095	282.456	17.434	438.88	513.014	0.250	0.333	***6.463***	17.434	2.162
2022-09-02 11:45	6137106	8.137	-113.707	281.951	17.459	438.987	512.853	0.250	0.333	***6.407***	17.459	2.095
2022-09-02 12:00	6138006	8.138	-113.778	275.346	17.488	439.252	512.828	0.250	0.333	***6.365***	17.488	2.029
2022-09-02 12:15	6138906	8.147	-114.3	279.698	17.542	440.147	513.257	0.250	0.334	6.557	17.542	2.092
2022-09-02 12:30	6139806	8.138	-113.809	282.218	17.625	440.562	512.79	0.250	0.333	6.598	17.625	2.174
2022-09-02 12:45	6140706	8.157	-114.877	282.025	17.694	440.903	512.403	0.250	0.333	6.827	17.694	2.268
2022-09-02 13:00	6141606	8.222	-118.582	274.376	17.778	441.309	511.922	0.249	0.333	7.031	17.778	3.2
2022-09-02 13:15	6142506	8.220	-118.494	279.438	17.852	441.927	511.798	0.249	0.333	7.396	17.852	2.496
2022-09-02 13:30	6143406	8.216	-118.349	283.066	17.975	443.129	511.796	0.249	0.333	7.486	17.975	2.623
2022-09-02 13:45	6144306	8.225	-118.921	284.702	18.16	444.947	511.814	0.249	0.333	7.594	18.16	2.499
2022-09-02 14:00	6145206	8.197	-117.421	284.003	18.304	446.764	512.284	0.250	0.333	7.628	18.304	3.08
2022-09-02 14:15	6146106	8.236	-119.65	280.933	18.441	447.816	511.956	0.249	0.333	7.613	18.441	2.603
2022-09-02 14:30	6147006	8.228	-119.24	280.856	18.544	449.301	512.501	0.250	0.333	7.533	18.544	2.387
2022-09-02 14:45	6147906	8.214	-118.461	278.236	18.609	450.126	512.714	0.250	0.333	7.391	18.609	2.318
2022-09-02 15:00	6148806	8.218	-118.74	274.021	18.693	449.879	511.492	0.249	0.332	7.394	18.693	2.521
2022-09-02 15:15	6149706	8.208	-118.232	279.276	18.77	450.665	511.536	0.249	0.332	7.669	18.77	2.403
2022-09-02 15:30	6150606	8.230	-119.46	278.985	18.838	451.257	511.456	0.249	0.332	7.886	18.838	2.317
2022-09-02 15:45	6151506	8.208	-118.251	277.263	18.876	451.602	511.425	0.249	0.332	7.940	18.876	2.261
2022-09-02 16:00	6152406	8.260	-121.191	265.378	18.864	451.122	511.013	0.249	0.332	8.046	18.864	2.385
2022-09-02 16:15	6153306	8.234	-119.731	272.121	18.852	450.285	510.199	0.249	0.332	8.125	18.852	2.369
2022-09-02 16:30	6154206	8.227	-119.328	274.076	18.85	451.353	511.423	0.249	0.332	8.506	18.85	2.441
2022-09-02 16:45	6155106	8.244	-120.301	276.689	18.886	452.002	511.763	0.249	0.333	8.346	18.886	2.429
2022-09-02 17:00	6156006	8.298	-123.346	272.092	18.92	452.362	511.793	0.249	0.333	8.141	18.92	2.443
2022-09-02 17:15	6156906	8.273	-121.925	278.117	18.946	452.753	511.951	0.249	0.333	8.093	18.946	2.462
2022-09-02 17:30	6157806	8.244	-120.296	275.141	18.945	452.756	511.964	0.249	0.333	8.309	18.945	2.399
2022-09-02 17:45	6158706	8.286	-122.7	275.113	18.953	452.693	511.805	0.249	0.333	8.249	18.953	2.238
2022-09-02 18:00	6159606	8.295	-123.188	263.387	18.958	452.256	511.259	0.249	0.332	8.324	18.958	2.23
2022-09-02 18:15	6160506	8.289	-122.848	273.878	18.956	451.983	510.975	0.249	0.332	8.118	18.956	2.339
2022-09-02 18:30	6161406	8.283	-122.497	274.858	18.964	451.332	510.15	0.249	0.332	8.245	18.964	2.335
2022-09-02 18:45	6162306	8.283	-122.497	274.979	18.963	451.795	510.685	0.249	0.332	8.352	18.963	2.301
2022-09-02 19:00	6163206	8.309	-124.016	266.759	18.972	452.155	510.985	0.249	0.332	8.377	18.972	2.516
2022-09-02 19:15	6164106	8.290	-122.893	274.097	18.975	452.088	510.876	0.249	0.332	8.301	18.975	2.269
2022-09-02 19:30	6165006	8.286	-122.671	273.411	18.963	451.915	510.817	0.249	0.332	8.444	18.963	2.236
2022-09-02 19:45	6165906	8.284	-122.573	272.826	18.957	451.901	510.86	0.249	0.332	8.296	18.957	2.226
2022-09-02 20:00	6166806	8.266	-121.527	265.853	18.94	451.896	511.051	0.249	0.332	8.097	18.94	2.121
2022-09-02 20:15	6167706	8.249	-120.614	273.227	18.932	452.004	511.258	0.249	0.332	7.875	18.932	2.16
2022-09-02 20:30	6168606	8.234	-119.724	275.981	18.927	452.214	511.555	0.249	0.333	7.739	18.927	2.162
2022-09-02 20:45	6169506	8.210	-118.389	277.774	18.921	452.831	512.312	0.250	0.333	7.509	18.921	2.123
2022-09-02 21:00	6170406	8.200	-117.824	277.8	18.915	452.226	511.693	0.249	0.333	7.155	18.915	2.033
2022-09-02 21:15	6171306	8.218	-118.856	279.834	18.919	452.505	511.969	0.249	0.333	7.274	18.919	2.102
2022-09-02 21:30	6172206	8.189	-117.171	276.684	18.908	452.558	512.149	0.250	0.333	7.148	18.908	2.099
2022-09-02 21:45	6173106	8.187	-117.09	276.66	18.902	452.687	512.359	0.250	0.333	7.002	18.902	2.146
2022-09-02 22:00	6174006	8.131	-113.9	264.158	18.89	453.158	513.033	0.250	0.333	6.758	18.89	2.146
2022-09-02 22:15	6174906	8.131	-113.914	271.873	18.897	453.806	513.686	0.250	0.334	***6.469***	18.897	2.208
2022-09-02 22:30	6175806	8.108	-112.636	273.918	18.905	454.365	514.229	0.251	0.334	***6.251***	18.905	2.151
2022-09-02 22:45	6176706	8.105	-112.438	276.407	18.913	454.689	514.502	0.251	0.334	***6.173***	18.913	2.124

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-02 23:00	6177606	8.126	-113.642	271.522	18.929	453.762	513.284	0.250	0.334	***6.186***	18.929	2.494
2022-09-02 23:15	6178506	8.122	-113.44	276.238	18.939	453.744	513.15	0.250	0.334	***6.493***	18.939	2.161
2022-09-02 23:30	6179406	8.117	-113.153	275.852	18.94	453.852	513.264	0.250	0.334	6.501	18.94	2.191
2022-09-02 23:45	6180306	8.105	-112.472	276.078	18.934	453.977	513.463	0.250	0.334	***6.453***	18.934	2.128
2022-09-03 00:00	6181206	8.097	-111.995	265.781	18.916	454.123	513.837	0.250	0.334	***6.349***	18.916	2.074
2022-09-03 00:15	6182106	8.111	-112.777	274.414	18.875	453.735	513.844	0.250	0.334	***6.292***	18.875	2.308
2022-09-03 00:30	6183006	8.123	-113.43	275.161	18.84	452.037	512.317	0.250	0.333	6.521	18.84	2.136
2022-09-03 00:45	6183906	8.141	-114.448	278.234	18.818	452.39	512.954	0.250	0.333	6.803	18.818	2.135
2022-09-03 01:00	6184806	8.136	-114.152	273.699	18.792	452.106	512.923	0.250	0.333	6.656	18.792	2.107
2022-09-03 01:15	6185706	8.127	-113.647	276.86	18.74	451.624	512.952	0.250	0.333	***6.326***	18.74	2.171
2022-09-03 01:30	6186606	8.151	-114.958	277.008	18.639	450.866	513.217	0.250	0.334	***6.487***	18.639	2.372
2022-09-03 01:45	6187506	8.135	-114.021	274.619	18.622	450.643	513.16	0.250	0.334	6.517	18.622	2.457
2022-09-03 02:00	6188406	8.171	-116.014	267.615	18.504	448.897	512.479	0.250	0.333	6.600	18.504	2.3
2022-09-03 02:15	6189306	8.139	-114.2	273.408	18.49	448.629	512.328	0.250	0.333	6.655	18.49	2.272
2022-09-03 02:30	6190206	8.125	-113.389	277.464	18.398	447.71	512.308	0.250	0.333	6.638	18.398	2.299
2022-09-03 02:45	6191106	8.168	-115.759	279.402	18.359	447.298	512.274	0.250	0.333	6.707	18.359	2.169
2022-09-03 03:00	6192006	8.169	-115.817	276.288	18.325	447.252	512.604	0.250	0.333	6.537	18.325	2.285
2022-09-03 03:15	6192906	8.131	-113.692	278.215	18.282	446.854	512.63	0.250	0.333	***6.419***	18.282	2.236
2022-09-03 03:30	6193806	8.141	-114.172	278.959	18.189	446.083	512.79	0.250	0.333	***6.388***	18.189	2.447
2022-09-03 03:45	6194706	8.140	-114.098	274.934	18.065	444.611	512.496	0.250	0.333	***6.441***	18.065	2.651
2022-09-03 04:00	6195606	8.145	-114.35	273.861	17.971	443.621	512.42	0.250	0.333	***6.481***	17.971	2.886
2022-09-03 04:15	6196506	8.157	-114.958	278.916	17.868	442.799	512.625	0.250	0.333	***6.415***	17.868	2.686
2022-09-03 04:30	6197406	8.152	-114.639	282.499	17.803	442.055	512.506	0.250	0.333	***6.305***	17.803	2.76
2022-09-03 04:45	6198306	8.135	-113.688	284.697	17.693	441.013	512.551	0.250	0.333	***6.117***	17.693	2.661
2022-09-03 05:00	6199206	8.171	-115.69	278.115	17.659	440.549	512.389	0.250	0.333	***6.245***	17.659	2.976
2022-09-03 05:15	6200106	8.168	-115.473	284.733	17.614	440.275	512.583	0.250	0.333	***6.342***	17.614	2.99
2022-09-03 05:30	6201006	8.173	-115.752	283.82	17.568	439.916	512.696	0.250	0.333	***6.430***	17.568	2.91
2022-09-03 05:45	6201906	8.169	-115.49	281.486	17.503	439.446	512.892	0.250	0.333	***6.218***	17.503	2.901
2022-09-03 06:00	6202806	8.153	-114.589	277.168	17.485	439.141	512.743	0.250	0.333	***6.376***	17.485	3.183
2022-09-03 06:15	6203706	8.097	-111.434	281.624	17.432	439.016	513.195	0.250	0.334	***6.252***	17.432	2.897
2022-09-03 06:30	6204606	8.109	-112.104	284.824	17.392	438.597	513.164	0.250	0.334	***6.115***	17.392	3.196
2022-09-03 06:45	6205506	8.105	-111.835	285.994	17.371	438.372	513.141	0.250	0.334	***6.283***	17.371	2.755
2022-09-03 07:00	6206406	8.138	-113.692	289.265	17.314	436.826	511.986	0.249	0.333	***6.428***	17.314	2.74
2022-09-03 07:15	6207306	8.131	-113.275	289.399	17.288	436.747	512.19	0.249	0.333	6.523	17.288	2.685
2022-09-03 07:30	6208206	8.141	-113.828	284.34	17.247	436.38	512.23	0.249	0.333	6.617	17.247	2.647
2022-09-03 07:45	6209106	8.168	-115.333	280.952	17.226	436.128	512.176	0.249	0.333	6.728	17.226	2.39
2022-09-03 08:00	6210006	8.168	-115.297	273.99	17.179	435.699	512.209	0.249	0.333	6.637	17.179	2.721
2022-09-03 08:15	6210906	8.132	-113.297	280.93	17.156	435.803	512.605	0.250	0.333	***6.471***	17.156	2.71
2022-09-03 08:30	6211806	8.136	-113.499	283.608	17.145	435.844	512.777	0.250	0.333	***6.313***	17.145	2.623
2022-09-03 08:45	6212707	8.126	-112.965	285.601	17.159	436.06	512.873	0.250	0.333	***6.463***	17.159	2.466
2022-09-03 09:00	6213607	8.149	-114.241	286.447	17.143	435.513	512.406	0.249	0.333	***6.472***	17.143	2.197
2022-09-03 09:15	6214507	8.151	-114.355	287.911	17.122	435.551	512.7	0.250	0.333	***6.390***	17.122	2.417
2022-09-03 09:30	6215407	8.171	-115.442	284.063	17.132	435.348	512.339	0.249	0.333	6.611	17.132	2.252
2022-09-03 09:45	6216307	8.170	-115.414	283.686	17.151	435.47	512.265	0.249	0.333	6.816	17.151	2.241
2022-09-03 10:00	6217207	8.178	-115.879	275.618	17.148	435.744	512.62	0.250	0.333	6.661	17.148	2.891
2022-09-03 10:15	6218107	8.110	-112.045	281.545	17.146	435.912	512.844	0.250	0.333	***6.303***	17.146	2.669
2022-09-03 10:30	6219007	8.121	-112.696	281.684	17.158	435.95	512.753	0.250	0.333	***6.223***	17.158	2.54
2022-09-03 10:45	6219907	8.145	-114	284.948	17.172	436.157	512.839	0.250	0.333	***6.298***	17.172	2.458

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-03 11:00	6220807	8.143	-113.924	286.669	17.179	436.264	512.877	0.250	0.333	***6.195***	17.179	1.957
2022-09-03 11:15	6221707	8.143	-113.907	289.892	17.218	436.657	512.891	0.250	0.333	***6.380***	17.218	1.929
2022-09-03 11:30	6222607	8.121	-112.712	286.934	17.248	437.01	512.966	0.250	0.333	***6.141***	17.248	1.909
2022-09-03 11:45	6223507	8.108	-112.004	283.686	17.283	437.409	513.023	0.250	0.333	***5.893***	17.283	1.859
2022-09-03 12:00	6224407	8.104	-111.771	277.201	17.31	437.893	513.286	0.250	0.334	***5.996***	17.31	1.986
2022-09-03 12:15	6225307	8.094	-111.251	281.297	17.36	438.673	513.628	0.250	0.334	***6.147***	17.36	2.015
2022-09-03 12:30	6226207	8.095	-111.308	282.392	17.425	439.204	513.495	0.250	0.334	***6.010***	17.425	2.038
2022-09-03 12:45	6227107	8.099	-111.568	282.473	17.489	439.576	513.205	0.250	0.334	***6.155***	17.489	2.149
2022-09-03 13:00	6228007	8.149	-114.379	275.101	17.562	439.761	512.578	0.250	0.333	***6.367***	17.562	2.127
2022-09-03 13:15	6228907	8.152	-114.62	281.111	17.633	439.85	511.872	0.249	0.333	6.602	17.633	1.992
2022-09-03 13:30	6229807	8.148	-114.388	284.597	17.712	440.037	511.196	0.249	0.332	6.900	17.712	2.205
2022-09-03 13:45	6230707	8.182	-116.358	285.982	17.84	441.186	511.078	0.249	0.332	7.128	17.84	2.018
2022-09-03 14:00	6231607	8.185	-116.551	285.439	17.915	442.501	511.748	0.249	0.333	7.447	17.915	2.781
2022-09-03 14:15	6232507	8.188	-116.742	282.547	17.972	443.407	512.156	0.249	0.333	7.250	17.972	2.325
2022-09-03 14:30	6233407	8.210	-118.015	280.639	18.06	443.921	511.755	0.249	0.333	7.280	18.06	2.538
2022-09-03 14:45	6234307	8.188	-116.83	279.106	18.12	444.721	511.998	0.249	0.333	7.347	18.12	2.423
2022-09-03 15:00	6235207	8.230	-119.233	271.489	18.205	444.915	511.268	0.249	0.332	7.332	18.205	3.596
2022-09-03 15:15	6236107	8.233	-119.386	275.037	18.251	445.152	511.03	0.249	0.332	7.623	18.251	2.37
2022-09-03 15:30	6237007	8.254	-120.606	277.666	18.311	445.194	510.4	0.249	0.332	8.299	18.311	2.509
2022-09-03 15:45	6237907	8.302	-123.341	279.099	18.379	445.349	509.817	0.248	0.331	8.166	18.379	2.354
2022-09-03 16:00	6238807	8.318	-124.242	277.249	18.412	444.925	508.974	0.248	0.331	8.845	18.412	2.732
2022-09-03 16:15	6239707	8.331	-124.979	274.491	18.44	445.387	509.185	0.248	0.331	8.983	18.44	2.579
2022-09-03 16:30	6240607	8.324	-124.595	276.577	18.449	445.589	509.314	0.248	0.331	9.088	18.449	3.043
2022-09-03 16:45	6241507	8.325	-124.657	274.91	18.461	446.096	509.758	0.248	0.331	8.705	18.461	3.164
2022-09-03 17:00	6242407	8.340	-125.532	270.685	18.47	445.641	509.144	0.248	0.331	8.695	18.47	4.25
2022-09-03 17:15	6243307	8.389	-128.326	273.697	18.524	445.651	508.55	0.248	0.331	9.601	18.524	3.069
2022-09-03 17:30	6244207	8.366	-126.991	273.332	18.532	445.581	508.384	0.248	0.330	9.272	18.532	2.708
2022-09-03 17:45	6245107	8.375	-127.521	271.117	18.56	445.547	508.039	0.247	0.330	9.461	18.56	2.933
2022-09-03 18:00	6246007	8.368	-127.165	269.405	18.593	446.222	508.439	0.248	0.330	9.494	18.593	3.027
2022-09-03 18:15	6246907	8.364	-126.956	272.19	18.714	447.452	508.505	0.248	0.331	9.340	18.714	2.825
2022-09-03 18:30	6247807	8.351	-126.367	270.34	18.982	449.802	508.216	0.248	0.330	9.286	18.982	2.955
2022-09-03 18:45	6248707	8.350	-126.436	270.266	19.211	453.372	509.731	0.248	0.331	9.322	19.211	2.886
2022-09-03 19:00	6249607	8.355	-126.81	260.798	19.473	457.163	511.123	0.249	0.332	9.018	19.473	4.208
2022-09-03 19:15	6250507	8.334	-125.723	265.354	19.685	459.659	511.597	0.249	0.333	9.054	19.685	4.482
2022-09-03 19:30	6251407	8.343	-126.271	261.249	19.838	460.565	510.941	0.249	0.332	9.106	19.838	4.804
2022-09-03 19:45	6252307	8.336	-125.864	258.421	19.729	459.185	510.585	0.249	0.332	9.002	19.729	2.671
2022-09-03 20:00	6253207	8.386	-128.386	257.029	19.135	451.825	508.823	0.248	0.331	9.501	19.135	2.968
2022-09-03 20:15	6254107	8.302	-123.61	267.41	18.957	448.742	507.293	0.247	0.330	9.372	18.957	2.879
2022-09-03 20:30	6255007	8.296	-123.239	270.659	18.921	449.041	508.024	0.247	0.330	9.278	18.921	2.676
2022-09-03 20:45	6255907	8.302	-123.575	271.692	18.971	450.077	508.654	0.248	0.331	8.979	18.971	2.495
2022-09-03 21:00	6256807	8.330	-125.182	269.927	18.977	451.257	509.922	0.248	0.331	8.879	18.977	2.689
2022-09-03 21:15	6257707	8.311	-124.147	273.465	19.016	451.796	510.097	0.249	0.332	8.612	19.016	2.284
2022-09-03 21:30	6258607	8.294	-123.158	273.167	19.073	452.738	510.53	0.249	0.332	8.417	19.073	2.403
2022-09-03 21:45	6259507	8.270	-121.872	272.753	19.139	453.865	511.082	0.249	0.332	8.157	19.139	2.386
2022-09-03 22:00	6260407	8.261	-121.362	264.365	19.156	454.675	511.803	0.249	0.333	7.945	19.156	6.321
2022-09-03 22:15	6261307	8.189	-117.321	270.886	19.167	455.174	512.246	0.250	0.333	7.684	19.167	2.525
2022-09-03 22:30	6262207	8.206	-118.256	272.476	19.143	454.612	511.873	0.249	0.333	7.498	19.143	4.838
2022-09-03 22:45	6263107	8.178	-116.668	274.369	19.094	453.582	511.253	0.249	0.332	7.318	19.094	2.289

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-03 23:00	6264007	8.217	-118.837	268.528	19.038	453.876	512.199	0.250	0.333	7.254	19.038	2.358
2022-09-03 23:15	6264907	8.191	-117.333	273.947	19.012	453.628	512.206	0.250	0.333	7.183	19.012	2.244
2022-09-03 23:30	6265807	8.186	-117.033	274.102	18.96	453.28	512.392	0.250	0.333	7.207	18.96	2.324
2022-09-03 23:45	6266707	8.176	-116.489	274.498	18.929	453.187	512.63	0.250	0.333	7.123	18.929	2.243
2022-09-04 00:00	6267607	8.156	-115.297	269.715	18.879	453.302	513.312	0.250	0.334	6.917	18.879	2.253
2022-09-04 00:15	6268507	8.134	-114.031	275.015	18.833	452.287	512.673	0.250	0.333	6.725	18.833	2.266
2022-09-04 00:30	6269407	8.123	-113.43	277.476	18.782	452.204	513.142	0.250	0.334	6.526	18.782	2.195
2022-09-04 00:45	6270307	8.122	-113.301	277.056	18.683	451.317	513.237	0.250	0.334	***6.494***	18.683	2.347
2022-09-04 01:00	6271207	8.169	-115.957	273.685	18.67	451.261	513.326	0.250	0.334	6.634	18.67	2.644
2022-09-04 01:15	6272107	8.153	-115.035	276.591	18.659	451.284	513.47	0.250	0.334	6.596	18.659	2.362
2022-09-04 01:30	6273007	8.158	-115.328	275.075	18.572	450.622	513.688	0.250	0.334	6.556	18.572	2.407
2022-09-04 01:45	6273907	8.161	-115.466	271.913	18.517	450.245	513.877	0.250	0.334	6.727	18.517	2.303
2022-09-04 02:00	6274807	8.124	-113.332	273.055	18.429	449.801	514.353	0.251	0.334	***6.454***	18.429	2.781
2022-09-04 02:15	6275707	8.152	-114.865	276.057	18.357	449.254	514.541	0.251	0.334	***6.182***	18.357	2.448
2022-09-04 02:30	6276607	8.152	-114.884	275.876	18.314	448.436	514.084	0.250	0.334	***6.239***	18.314	2.351
2022-09-04 02:45	6277507	8.144	-114.41	277.263	18.242	448.703	515.202	0.251	0.335	***6.370***	18.242	2.52
2022-09-04 03:00	6278407	8.152	-114.806	272.292	18.203	448.296	515.179	0.251	0.335	***6.047***	18.203	2.528
2022-09-04 03:15	6279307	8.120	-113.025	277.678	18.144	447.934	515.434	0.251	0.335	***5.892***	18.144	2.332
2022-09-04 03:30	6280207	8.117	-112.81	278.2	18.055	447.966	516.473	0.252	0.336	***5.840***	18.055	2.251
2022-09-04 03:45	6281107	8.121	-113.02	278.453	17.99	446.438	515.454	0.251	0.335	***5.746***	17.99	2.344
2022-09-04 04:00	6282007	8.123	-113.084	274.679	17.92	445.387	515.029	0.251	0.335	***5.800***	17.92	3.267
2022-09-04 04:15	6282907	8.082	-110.722	278.489	17.852	445.026	515.389	0.251	0.335	***5.730***	17.852	2.841
2022-09-04 04:30	6283807	8.092	-111.239	281.705	17.724	443.622	515.226	0.251	0.335	***5.762***	17.724	2.829
2022-09-04 04:45	6284707	8.090	-111.122	283.267	17.645	442.589	514.922	0.251	0.335	***5.867***	17.645	3.449
2022-09-04 05:00	6285607	8.115	-112.524	285.615	17.594	441.293	514.004	0.250	0.334	***6.109***	17.594	2.687
2022-09-04 05:15	6286507	8.090	-111.079	287.046	17.532	440.851	514.192	0.250	0.334	***6.024***	17.532	2.496
2022-09-04 05:30	6287407	8.134	-113.499	284.569	17.461	440.137	514.177	0.250	0.334	***6.022***	17.461	2.529
2022-09-04 05:45	6288307	8.138	-113.716	281.722	17.419	439.547	513.974	0.250	0.334	***6.047***	17.419	2.418
2022-09-04 06:00	6289207	8.162	-115.044	277.797	17.351	438.543	513.571	0.250	0.334	***6.152***	17.351	2.963
2022-09-04 06:15	6290107	8.123	-112.836	281.378	17.321	438.657	514.055	0.250	0.334	***6.224***	17.321	3.118
2022-09-04 06:30	6291007	8.104	-111.754	283.818	17.294	438.618	514.323	0.250	0.334	***6.372***	17.294	2.959
2022-09-04 06:45	6291907	8.067	-109.701	287.263	17.294	438.541	514.226	0.250	0.334	***6.410***	17.294	2.856
2022-09-04 07:00	6292807	8.109	-112.04	287.749	17.29	437.784	513.385	0.250	0.334	***6.194***	17.29	2.488
2022-09-04 07:15	6293707	8.150	-114.326	288.15	17.292	437.991	513.601	0.250	0.334	***6.333***	17.292	2.436
2022-09-04 07:30	6294607	8.129	-113.175	286.037	17.267	437.833	513.711	0.250	0.334	***6.266***	17.267	2.28
2022-09-04 07:45	6295507	8.152	-114.443	282.244	17.247	437.547	513.607	0.250	0.334	***6.325***	17.247	2.244
2022-09-04 08:00	6296407	8.152	-114.422	278.355	17.22	437.38	513.716	0.250	0.334	***6.280***	17.22	2.62
2022-09-04 08:15	6297307	8.142	-113.871	281.46	17.207	437.447	513.941	0.250	0.334	***6.326***	17.207	2.45
2022-09-04 08:30	6298207	8.146	-114.102	284.518	17.224	437.61	513.94	0.250	0.334	***6.282***	17.224	2.337
2022-09-04 08:45	6299107	8.125	-112.915	285.067	17.239	437.913	514.127	0.250	0.334	***6.108***	17.239	2.317
2022-09-04 09:00	6300007	8.128	-113.082	281.717	17.249	437.903	513.995	0.250	0.334	***5.866***	17.249	2.107
2022-09-04 09:15	6300907	8.114	-112.321	285.002	17.251	437.866	513.929	0.250	0.334	***5.752***	17.251	2.252
2022-09-04 09:30	6301807	8.129	-113.182	284.354	17.265	437.986	513.905	0.250	0.334	***5.829***	17.265	2.167
2022-09-04 09:45	6302707	8.108	-112	283.276	17.273	438.192	514.065	0.250	0.334	***5.783***	17.273	2.237
2022-09-04 10:00	6303607	8.115	-112.386	275.947	17.287	438.453	514.2	0.250	0.334	***5.594***	17.287	2.193
2022-09-04 10:15	6304507	8.110	-112.088	278.763	17.298	438.615	514.269	0.250	0.334	***5.689***	17.298	2.293
2022-09-04 10:30	6305407	8.098	-111.463	279.667	17.344	439.125	514.338	0.250	0.334	***5.749***	17.344	2.784
2022-09-04 10:45	6306307	8.093	-111.17	279.617	17.362	439.7	514.801	0.251	0.335	***5.534***	17.362	2.237

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-04 11:00	6307207	8.081	-110.54	277.328	17.387	439.669	514.479	0.251	0.334	***5.357***	17.387	2.253
2022-09-04 11:15	6308107	8.063	-109.534	280.678	17.42	439.904	514.373	0.250	0.334	***5.353***	17.42	2.08
2022-09-04 11:30	6309007	8.067	-109.746	280.244	17.465	440.114	514.102	0.250	0.334	***5.333***	17.465	2.311
2022-09-04 11:45	6309907	8.107	-112.04	278.01	17.517	439.684	513.007	0.250	0.333	***6.041***	17.517	2.391
2022-09-04 12:00	6310807	8.136	-113.664	268.952	17.541	439.939	513.033	0.250	0.333	6.995	17.541	2.54
2022-09-04 12:15	6311707	8.193	-116.849	274.233	17.546	440.039	513.082	0.250	0.334	7.350	17.546	2.531
2022-09-04 12:30	6312607	8.201	-117.34	277.268	17.562	440.159	513.045	0.250	0.333	6.807	17.562	3.841
2022-09-04 12:45	6313507	8.194	-116.961	279.695	17.581	440.463	513.179	0.250	0.334	6.831	17.581	2.776
2022-09-04 13:00	6314407	8.224	-118.623	275.444	17.602	440.105	512.526	0.250	0.333	7.029	17.602	2.737
2022-09-04 13:15	6315307	8.231	-119.057	279.712	17.625	440.057	512.21	0.249	0.333	7.257	17.625	3.053
2022-09-04 13:30	6316207	8.261	-120.711	278.861	17.64	439.929	511.883	0.249	0.333	7.653	17.64	3.176
2022-09-04 13:45	6317107	8.268	-121.112	277.268	17.641	440.1	512.075	0.249	0.333	7.810	17.641	3.216
2022-09-04 14:00	6318007	8.293	-122.554	274.333	17.659	440.06	511.821	0.249	0.333	8.108	17.659	3.391
2022-09-04 14:15	6318907	8.289	-122.283	279.233	17.646	439.957	511.858	0.249	0.333	8.168	17.646	3.15
2022-09-04 14:30	6319807	8.315	-123.782	281.417	17.672	440.249	511.895	0.249	0.333	8.234	17.672	3.02
2022-09-04 14:45	6320707	8.322	-124.171	282.709	17.697	440.315	511.69	0.249	0.333	8.313	17.697	3.36
2022-09-04 15:00	6321607	8.332	-124.726	279.006	17.687	439.861	511.28	0.249	0.332	8.341	17.687	4.66
2022-09-04 15:15	6322507	8.336	-125.015	282.48	17.746	440.631	511.495	0.249	0.332	8.384	17.746	3.7
2022-09-04 15:30	6323407	8.335	-124.95	281.395	17.802	441.284	511.619	0.249	0.333	8.413	17.802	3.39
2022-09-04 15:45	6324307	8.338	-125.108	278.479	17.829	441.772	511.888	0.249	0.333	8.439	17.829	3.603
2022-09-04 16:00	6325207	8.338	-125.158	269.951	17.844	442.079	512.065	0.249	0.333	8.367	17.844	3.883
2022-09-04 16:15	6326107	8.340	-125.27	276.136	17.876	442.447	512.129	0.249	0.333	8.453	17.876	4.32
2022-09-04 16:30	6327007	8.343	-125.453	277.919	17.912	442.97	512.328	0.250	0.333	8.467	17.912	3.436
2022-09-04 16:45	6327907	8.333	-124.917	279.633	17.936	443.528	512.7	0.250	0.333	8.451	17.936	3.078
2022-09-04 17:00	6328807	8.317	-124.009	278.839	17.966	443.634	512.49	0.250	0.333	8.253	17.966	3.469
2022-09-04 17:15	6329707	8.319	-124.128	279.896	17.986	443.994	512.676	0.250	0.333	8.278	17.986	3.138
2022-09-04 17:30	6330607	8.308	-123.501	277.931	18.001	444.091	512.619	0.250	0.333	8.352	18.001	3.623
2022-09-04 17:45	6331507	8.302	-123.172	276.636	18.001	444.357	512.931	0.250	0.333	8.370	18.001	3.447
2022-09-04 18:00	6332407	8.317	-124.004	272.924	17.996	444.781	513.468	0.250	0.334	8.275	17.996	3.516
2022-09-04 18:15	6333307	8.306	-123.391	279.443	18.024	445.296	513.751	0.250	0.334	8.566	18.024	3.582
2022-09-04 18:30	6334207	8.309	-123.584	282.668	18.031	445.59	514.014	0.250	0.334	8.624	18.031	3.295
2022-09-04 18:45	6335107	8.322	-124.297	283.486	18.027	445.781	514.279	0.251	0.334	8.563	18.027	3.205
2022-09-04 19:00	6336007	8.303	-123.219	284.485	18.012	445.784	514.449	0.251	0.334	8.516	18.012	5.383
2022-09-04 19:15	6336907	8.312	-123.758	285.143	17.991	445.446	514.292	0.251	0.334	8.349	17.991	3.605
2022-09-04 19:30	6337807	8.315	-123.885	282.439	17.961	445.553	514.764	0.251	0.335	8.267	17.961	3.384
2022-09-04 19:45	6338707	8.316	-123.949	282.101	17.937	445.594	515.077	0.251	0.335	8.190	17.937	3.314
2022-09-04 20:00	6339607	8.282	-122.018	278.479	17.918	445.729	515.456	0.251	0.335	8.018	17.918	3.594
2022-09-04 20:15	6340507	8.293	-122.659	283.36	17.905	445.961	515.864	0.251	0.335	7.972	17.905	3.265
2022-09-04 20:30	6341407	8.284	-122.099	285.937	17.889	445.97	516.062	0.251	0.335	7.747	17.889	2.839
2022-09-04 20:45	6342307	8.257	-120.606	287.236	17.859	445.546	515.91	0.251	0.335	7.761	17.859	3.205
2022-09-04 21:00	6343207	8.270	-121.338	281.123	17.845	445.375	515.869	0.251	0.335	7.687	17.845	3.305
2022-09-04 21:15	6344107	8.268	-121.176	286.216	17.827	445.089	515.744	0.251	0.335	7.637	17.827	3.216
2022-09-04 21:30	6345007	8.260	-120.761	285.649	17.808	445.096	515.97	0.251	0.335	7.535	17.808	2.854
2022-09-04 21:45	6345907	8.251	-120.239	284.311	17.785	445.015	516.146	0.251	0.335	7.335	17.785	2.708
2022-09-04 22:00	6346807	8.216	-118.265	275.737	17.751	444.979	516.49	0.252	0.336	7.065	17.751	2.696
2022-09-04 22:15	6347707	8.218	-118.346	284.28	17.726	444.97	516.772	0.252	0.336	6.944	17.726	2.484
2022-09-04 22:30	6348607	8.208	-117.764	287.742	17.698	444.827	516.916	0.252	0.336	6.769	17.698	2.414
2022-09-04 22:45	6349507	8.208	-117.757	289.275	17.648	444.213	516.783	0.252	0.336	6.681	17.648	2.504

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-04 23:00	6350407	8.220	-118.401	283.181	17.578	443.109	516.302	0.251	0.336	6.748	17.578	2.969
2022-09-04 23:15	6351307	8.200	-117.249	287.701	17.561	443.177	516.577	0.252	0.336	6.786	17.561	2.642
2022-09-04 23:30	6352207	8.191	-116.727	287.043	17.461	442.343	516.748	0.252	0.336	6.502	17.461	2.872
2022-09-04 23:45	6353107	8.183	-116.258	284.983	17.431	441.786	516.452	0.252	0.336	6.558	17.431	2.576
2022-09-05 00:00	6354007	8.176	-115.862	283.441	17.38	441.395	516.582	0.252	0.336	6.649	17.38	2.761
2022-09-05 00:15	6354907	8.183	-116.22	286.702	17.3	440.756	516.753	0.252	0.336	***6.464***	17.3	2.705
2022-09-05 00:30	6355807	8.141	-113.8	288.698	17.237	440.211	516.847	0.252	0.336	***6.461***	17.237	3.152
2022-09-05 00:45	6356707	8.153	-114.503	290.915	17.217	440.194	517.055	0.252	0.336	***6.381***	17.217	3.291
2022-09-05 01:00	6357607	8.161	-114.951	288.386	17.21	439.804	516.676	0.252	0.336	***6.377***	17.21	2.905
2022-09-05 01:15	6358507	8.154	-114.553	291.282	17.19	439.588	516.66	0.252	0.336	6.548	17.19	2.873
2022-09-05 01:30	6359407	8.140	-113.721	287.692	17.133	439.264	516.943	0.252	0.336	***6.256***	17.133	2.855
2022-09-05 01:45	6360307	8.162	-114.934	284.778	17.121	438.923	516.674	0.252	0.336	***6.378***	17.121	2.535
2022-09-05 02:00	6361207	8.160	-114.825	279.233	17.117	438.987	516.797	0.252	0.336	***6.456***	17.117	3.479
2022-09-05 02:15	6362107	8.126	-112.91	286.817	17.114	439.102	516.965	0.252	0.336	***6.126***	17.114	3.133
2022-09-05 02:30	6363007	8.104	-111.666	291.573	17.092	439.208	517.355	0.252	0.336	***6.054***	17.092	2.975
2022-09-05 02:45	6363907	8.135	-113.43	294.742	17.056	439.13	517.676	0.252	0.336	***6.110***	17.056	3.417
2022-09-05 03:00	6364807	8.119	-112.519	294.286	17.019	437.818	516.559	0.252	0.336	***5.779***	17.019	2.767
2022-09-05 03:15	6365707	8.125	-112.801	293.822	16.926	437.202	516.918	0.252	0.336	***5.942***	16.926	2.925
2022-09-05 03:30	6366607	8.144	-113.883	290.143	16.892	436.547	516.535	0.251	0.336	***6.497***	16.892	2.758
2022-09-05 03:45	6367507	8.127	-112.867	289.332	16.845	435.868	516.284	0.251	0.336	6.501	16.845	2.956
2022-09-05 04:00	6368407	8.157	-114.536	285.227	16.801	435.333	516.166	0.251	0.336	6.549	16.801	2.647
2022-09-05 04:15	6369307	8.164	-114.949	287.625	16.777	435.402	516.526	0.251	0.336	6.668	16.777	3.399
2022-09-05 04:30	6370207	8.166	-115.037	290.51	16.75	434.944	516.297	0.251	0.336	6.661	16.75	2.863
2022-09-05 04:45	6371107	8.177	-115.647	292.024	16.73	434.749	516.297	0.251	0.336	6.735	16.73	3.021
2022-09-05 05:00	6372007	8.185	-116.091	288.691	16.722	434.345	515.919	0.251	0.335	6.751	16.722	3.031
2022-09-05 05:15	6372907	8.177	-115.643	292.093	16.704	434.204	515.957	0.251	0.335	6.729	16.704	2.936
2022-09-05 05:30	6373807	8.187	-116.169	289.811	16.691	433.887	515.733	0.251	0.335	7.173	16.691	2.938
2022-09-05 05:45	6374707	8.169	-115.154	289.239	16.667	434.106	516.278	0.251	0.336	6.719	16.667	2.652
2022-09-05 06:00	6375607	8.127	-112.789	286.712	16.649	434.262	516.674	0.251	0.336	***6.337***	16.649	3.121
2022-09-05 06:15	6376507	8.154	-114.279	289.582	16.602	433.827	516.713	0.252	0.336	***6.181***	16.602	2.896
2022-09-05 06:30	6377407	8.140	-113.492	291.955	16.588	433.433	516.403	0.251	0.336	***6.389***	16.588	3.196
2022-09-05 06:45	6378307	8.026	-107.093	293.254	16.548	433.217	516.615	0.251	0.336	6.535	16.548	3.227
2022-09-05 07:00	6379207	8.154	-114.284	289.149	16.521	432.476	516.049	0.251	0.335	***6.487***	16.521	3.485
2022-09-05 07:15	6380107	8.157	-114.422	292.649	16.499	432.275	516.068	0.251	0.335	6.648	16.499	2.789
2022-09-05 07:30	6381007	8.152	-114.152	291.316	16.479	432.173	516.177	0.251	0.336	6.755	16.479	2.979
2022-09-05 07:45	6381907	8.140	-113.485	288.676	16.483	432.099	516.046	0.251	0.335	6.686	16.483	2.883
2022-09-05 08:00	6382807	8.145	-113.728	281.939	16.47	432.199	516.32	0.251	0.336	6.761	16.47	3.67
2022-09-05 08:15	6383707	8.147	-113.869	285.751	16.472	432.258	516.36	0.251	0.336	6.566	16.472	2.873
2022-09-05 08:30	6384607	8.137	-113.287	291.633	16.449	431.857	516.159	0.251	0.336	6.878	16.449	3.391
2022-09-05 08:45	6385507	8.170	-115.104	295.529	16.411	431.378	516.037	0.251	0.335	6.790	16.411	3.135
2022-09-05 09:00	6386407	8.176	-115.416	294.272	16.357	430.538	515.669	0.251	0.335	6.958	16.357	3.228
2022-09-05 09:15	6387307	8.193	-116.374	291.669	16.327	430	515.377	0.251	0.335	6.910	16.327	3.037
2022-09-05 09:30	6388207	8.183	-115.821	289.122	16.315	429.895	515.384	0.251	0.335	7.035	16.315	3.067
2022-09-05 09:45	6389107	8.161	-114.56	285.367	16.296	429.604	515.27	0.251	0.335	7.034	16.296	3.071
2022-09-05 10:00	6390007	8.215	-117.609	274.996	16.308	429.847	515.415	0.251	0.335	7.111	16.308	3.182
2022-09-05 10:15	6390907	8.231	-118.525	281.967	16.316	429.934	515.419	0.251	0.335	7.137	16.316	3.196
2022-09-05 10:30	6391807	8.235	-118.73	285.367	16.282	429.481	515.283	0.251	0.335	7.241	16.282	3.317
2022-09-05 10:45	6392707	8.239	-118.945	284.874	16.27	429.287	515.187	0.251	0.335	7.270	16.27	3.873

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-05 11:00	6393607	8.246	-119.359	284.063	16.316	429.702	515.146	0.251	0.335	7.265	16.316	3.437
2022-09-05 11:15	6394507	8.250	-119.581	286.617	16.347	429.946	515.078	0.251	0.335	7.382	16.347	3.255
2022-09-05 11:30	6395407	8.259	-120.058	284.454	16.337	429.742	514.942	0.251	0.335	7.497	16.337	3.342
2022-09-05 11:45	6396307	8.277	-121.069	281.591	16.356	429.907	514.919	0.251	0.335	7.593	16.356	3.637
2022-09-05 12:00	6397207	8.288	-121.706	276.527	16.361	429.987	514.956	0.251	0.335	7.605	16.361	3.982
2022-09-05 12:15	6398107	8.280	-121.264	283.081	16.362	429.976	514.934	0.251	0.335	7.721	16.362	3.79
2022-09-05 12:30	6399007	8.290	-121.82	287.863	16.349	429.863	514.953	0.251	0.335	7.772	16.349	3.785
2022-09-05 12:45	6399907	8.299	-122.299	291.027	16.348	429.812	514.905	0.251	0.335	7.779	16.348	4.235
2022-09-05 13:00	6400807	8.291	-121.87	287.73	16.346	429.725	514.817	0.251	0.335	7.849	16.346	4.989
2022-09-05 13:15	6401707	8.300	-122.383	284.585	16.377	429.932	514.701	0.250	0.335	7.942	16.377	3.948
2022-09-05 13:30	6402607	8.314	-123.177	281.891	16.44	430.491	514.627	0.250	0.335	7.996	16.44	3.579
2022-09-05 13:45	6403507	8.315	-123.277	279.471	16.501	430.94	514.447	0.250	0.334	8.112	16.501	3.616
2022-09-05 14:00	6404407	8.318	-123.479	269.963	16.531	431.419	514.675	0.250	0.335	8.194	16.531	3.715
2022-09-05 14:15	6405307	8.333	-124.321	273.496	16.562	431.59	514.51	0.250	0.334	8.331	16.562	3.642
2022-09-05 14:30	6406207	8.350	-125.277	275.876	16.643	432.317	514.429	0.250	0.334	8.440	16.643	3.814
2022-09-05 14:45	6407107	8.345	-125.067	277.263	16.695	432.773	514.36	0.250	0.334	8.484	16.695	3.401
2022-09-05 15:00	6408007	8.355	-125.635	275.132	16.736	433.232	514.429	0.250	0.334	8.487	16.736	3.726
2022-09-05 15:15	6408907	8.342	-124.922	279.118	16.777	433.491	514.265	0.250	0.334	8.577	16.777	3.556
2022-09-05 15:30	6409807	8.336	-124.574	282.408	16.846	434.163	514.258	0.250	0.334	8.647	16.846	3.526
2022-09-05 15:45	6410707	8.346	-125.151	284.871	16.879	434.481	514.248	0.250	0.334	8.654	16.879	3.165
2022-09-05 16:00	6411607	8.334	-124.519	280.842	16.897	434.894	514.525	0.250	0.334	8.649	16.897	3.457
2022-09-05 16:15	6412507	8.356	-125.732	278.429	16.91	435.022	514.523	0.250	0.334	8.659	16.91	3.317
2022-09-05 16:30	6413407	8.365	-126.257	277.187	16.934	435.191	514.445	0.250	0.334	8.782	16.934	4.539
2022-09-05 16:45	6414307	8.376	-126.908	274.946	16.939	435.144	514.333	0.250	0.334	8.828	16.939	3.621
2022-09-05 17:00	6415207	8.378	-127.006	271.949	16.949	435.217	514.307	0.250	0.334	8.740	16.949	5.917
2022-09-05 17:15	6416107	8.377	-126.956	274.51	16.967	435.388	514.299	0.250	0.334	8.783	16.967	3.442
2022-09-05 17:30	6417007	8.382	-127.23	273.132	16.983	435.514	514.263	0.250	0.334	8.784	16.983	3.804
2022-09-05 17:45	6417907	8.378	-127.006	271.849	16.981	435.472	514.229	0.250	0.334	8.802	16.981	4.116
2022-09-05 18:00	6418807	8.395	-127.947	266.599	16.946	435.204	514.328	0.250	0.334	8.803	16.946	5.002
2022-09-05 18:15	6419707	8.390	-127.661	274.693	16.943	435.187	514.343	0.250	0.334	8.797	16.943	4.199
2022-09-05 18:30	6420607	8.385	-127.394	278.947	16.941	435.229	514.406	0.250	0.334	8.813	16.941	3.696
2022-09-05 18:45	6421507	8.395	-127.921	281.028	16.933	435.322	514.618	0.251	0.335	8.801	16.933	4.001
2022-09-05 19:00	6422407	8.383	-127.277	281.836	16.917	435.026	514.45	0.250	0.334	8.664	16.917	3.82
2022-09-05 19:15	6423307	8.373	-126.717	281.698	16.882	434.656	514.42	0.250	0.334	8.745	16.882	3.551
2022-09-05 19:30	6424207	8.349	-125.313	277.292	16.832	434.249	514.516	0.250	0.334	8.692	16.832	4.155
2022-09-05 19:45	6425107	8.370	-126.474	277.344	16.796	433.906	514.525	0.250	0.334	8.645	16.796	3.78
2022-09-05 20:00	6426007	8.377	-126.87	270.447	16.767	433.774	514.713	0.251	0.335	8.603	16.767	3.621
2022-09-05 20:15	6426907	8.367	-126.283	277.147	16.746	433.794	514.985	0.251	0.335	8.519	16.746	3.76
2022-09-05 20:30	6427807	8.361	-125.954	279.061	16.709	433.483	515.049	0.251	0.335	8.432	16.709	3.559
2022-09-05 20:45	6428707	8.355	-125.587	279.903	16.665	433.765	515.897	0.251	0.335	8.381	16.665	3.159
2022-09-05 21:00	6429607	8.362	-125.937	277.044	16.615	432.331	514.774	0.251	0.335	8.356	16.615	3.354
2022-09-05 21:15	6430507	8.363	-126.019	281.378	16.597	432.152	514.771	0.251	0.335	8.286	16.597	3.211
2022-09-05 21:30	6431407	8.340	-124.693	282.344	16.54	431.617	514.807	0.251	0.335	8.239	16.54	3.362
2022-09-05 21:45	6432307	8.330	-124.133	280.463	16.496	431.189	514.804	0.251	0.335	8.190	16.496	3.662
2022-09-05 22:00	6433207	8.350	-125.163	272.633	16.386	430.331	515.074	0.251	0.335	8.157	16.386	4.606
2022-09-05 22:15	6434107	8.326	-123.818	280.489	16.33	430.103	515.458	0.251	0.335	8.088	16.33	4.05
2022-09-05 22:30	6435007	8.318	-123.329	284.435	16.288	430.223	516.104	0.251	0.335	8.007	16.288	3.334
2022-09-05 22:45	6435907	8.296	-122.087	288.443	16.257	429.97	516.167	0.251	0.336	7.906	16.257	3.316

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-05 23:00	6436807	8.291	-121.822	289.981	16.193	428.848	515.575	0.251	0.335	7.819	16.193	3.356
2022-09-05 23:15	6437707	8.271	-120.69	291.349	16.137	428.129	515.374	0.251	0.335	7.603	16.137	3.909
2022-09-05 23:30	6438607	8.256	-119.777	288.293	16.061	427.456	515.46	0.251	0.335	7.604	16.061	3.044
2022-09-05 23:45	6439507	8.250	-119.445	284.094	15.995	426.916	515.595	0.251	0.335	7.582	15.995	2.736
2022-09-06 00:00	6440407	8.271	-120.583	279.061	15.941	426.722	516.006	0.251	0.335	7.318	15.941	3.164
2022-09-06 00:15	6441307	8.231	-118.332	282.428	15.917	426.518	516.05	0.251	0.335	7.151	15.917	3.588
2022-09-06 00:30	6442207	8.234	-118.465	284.642	15.851	425.854	516.032	0.251	0.335	7.094	15.851	8.302
2022-09-06 00:45	6443107	8.230	-118.206	284.292	15.796	425.533	516.294	0.251	0.336	7.082	15.796	4.057
2022-09-06 01:00	6444007	8.255	-119.586	282.773	15.732	424.555	515.874	0.251	0.335	7.174	15.732	5.24
2022-09-06 01:15	6444907	8.242	-118.849	286.416	15.679	423.968	515.799	0.251	0.335	7.189	15.679	3.497
2022-09-06 01:30	6445807	8.253	-119.429	285.179	15.63	423.431	515.724	0.251	0.335	7.286	15.63	2.983
2022-09-06 01:45	6446707	8.265	-120.077	283.231	15.573	422.719	515.549	0.251	0.335	7.680	15.573	3.445
2022-09-06 02:00	6447607	8.262	-119.932	279.197	15.566	422.855	515.798	0.251	0.335	7.300	15.566	5.571
2022-09-06 02:15	6448507	8.239	-118.649	283.722	15.56	422.945	515.983	0.251	0.335	7.355	15.56	3.307
2022-09-06 02:30	6449407	8.211	-117.071	288.107	15.555	423.107	516.234	0.251	0.336	7.397	15.555	3.598
2022-09-06 02:45	6450307	8.151	-113.695	291.347	15.534	423.264	516.675	0.251	0.336	7.670	15.534	3.886
2022-09-06 03:00	6451207	8.212	-117.073	294.661	15.479	421.884	515.652	0.251	0.335	7.530	15.479	3.673
2022-09-06 03:15	6452107	8.253	-119.367	293.757	15.452	421.722	515.789	0.251	0.335	7.187	15.452	2.802
2022-09-06 03:30	6453007	8.241	-118.701	288.977	15.456	421.629	515.617	0.251	0.335	7.494	15.456	2.697
2022-09-06 03:45	6453907	8.244	-118.868	284.871	15.455	421.86	515.913	0.251	0.335	7.475	15.455	2.64
2022-09-06 04:00	6454807	8.234	-118.294	279.299	15.417	421.662	516.127	0.251	0.335	7.081	15.417	3.547
2022-09-06 04:15	6455707	8.235	-118.32	286.512	15.307	420.911	516.537	0.251	0.336	7.263	15.307	3.799
2022-09-06 04:30	6456607	8.234	-118.213	289.849	15.247	420.545	516.815	0.251	0.336	7.157	15.247	3.593
2022-09-06 04:45	6457507	8.202	-116.467	293.373	15.254	420.5	516.676	0.251	0.336	7.298	15.254	3.567
2022-09-06 05:00	6458407	8.234	-118.22	291.373	15.213	419.258	515.645	0.251	0.335	7.674	15.213	3.096
2022-09-06 05:15	6459307	8.270	-120.244	291.065	15.212	419.376	515.805	0.251	0.335	7.721	15.212	2.746
2022-09-06 05:30	6460207	8.226	-117.774	288.707	15.205	419.5	516.046	0.251	0.335	7.454	15.205	2.809
2022-09-06 05:45	6461107	8.245	-118.806	286.068	15.185	419.226	515.948	0.251	0.335	7.327	15.185	2.794
2022-09-06 06:00	6462007	8.249	-119.011	280.67	15.158	419.449	516.549	0.251	0.336	7.350	15.158	2.693
2022-09-06 06:15	6462907	8.236	-118.287	285.985	15.155	419.299	516.406	0.251	0.336	7.052	15.155	2.51
2022-09-06 06:30	6463807	8.218	-117.295	289.051	15.112	418.722	516.213	0.251	0.336	6.880	15.112	2.492
2022-09-06 06:45	6464707	8.236	-118.251	290.791	15.032	417.569	515.769	0.251	0.335	6.963	15.032	2.801
2022-09-06 07:00	6465607	8.251	-119.085	243.065	14.997	417.673	516.323	0.251	0.336	7.088	14.997	3.132
2022-09-06 07:15	6466507	8.234	-118.117	256.762	14.977	417.412	516.238	0.251	0.336	7.010	14.977	2.635
2022-09-06 07:30	6467407	8.238	-118.301	267.891	14.936	417.076	516.32	0.251	0.336	6.930	14.936	2.529
2022-09-06 07:45	6468307	8.236	-118.184	274.102	14.885	416.538	516.283	0.251	0.336	7.040	14.885	3.113
2022-09-06 08:00	6469207	8.265	-119.784	271.727	14.848	416.291	516.434	0.251	0.336	7.241	14.848	2.524
2022-09-06 08:15	6470107	8.256	-119.278	277.299	14.835	415.804	515.981	0.251	0.335	7.078	14.835	2.463
2022-09-06 08:30	6471007	8.262	-119.603	281.104	14.769	414.969	515.753	0.251	0.335	7.148	14.769	2.608
2022-09-06 08:45	6471907	8.238	-118.234	274.917	14.76	415.173	516.121	0.251	0.335	7.169	14.76	3.104
2022-09-06 09:00	6472807	8.259	-119.421	266.244	14.767	415.404	516.316	0.251	0.336	7.143	14.767	2.678
2022-09-06 09:15	6473707	8.283	-120.759	273.425	14.726	415.004	516.327	0.251	0.336	7.185	14.726	3.383
2022-09-06 09:30	6474607	8.288	-121.009	275.375	14.726	414.779	516.045	0.251	0.335	7.408	14.726	2.881
2022-09-06 09:45	6475507	8.289	-121.1	276.682	14.752	415.049	516.063	0.251	0.335	7.617	14.752	2.964
2022-09-06 10:00	6476407	8.272	-120.163	253.176	14.761	415.292	516.252	0.251	0.336	7.686	14.761	3.18
2022-09-06 10:15	6477307	8.273	-120.225	266.465	14.783	415.763	516.57	0.251	0.336	7.336	14.783	3.248
2022-09-06 10:30	6478207	8.255	-119.228	272.948	14.818	416.296	516.801	0.251	0.336	7.090	14.818	3.297
2022-09-06 10:45	6479107	8.256	-119.264	276.641	14.853	416.636	516.794	0.251	0.336	7.086	14.853	2.641

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-06 11:00	6480007	8.259	-119.474	275.745	14.895	416.87	516.564	0.251	0.336	7.075	14.895	2.205
2022-09-06 11:15	6480907	8.246	-118.744	276.484	14.935	417.276	516.582	0.251	0.336	6.886	14.935	2.176
2022-09-06 11:30	6481807	8.249	-118.923	275.146	14.949	416.972	516.038	0.251	0.335	7.222	14.949	2.579
2022-09-06 11:45	6482707	8.266	-119.891	273.298	14.974	417.18	515.994	0.251	0.335	7.873	14.974	3.166
2022-09-06 12:00	6483607	8.277	-120.521	268.456	15.001	417.338	515.856	0.251	0.335	7.536	15.001	5.413
2022-09-06 12:15	6484507	8.286	-121.031	274.002	15.044	417.966	516.115	0.251	0.335	7.833	15.044	8.547
2022-09-06 12:30	6485407	8.274	-120.413	277.254	15.091	418.581	516.293	0.251	0.336	7.639	15.091	2.237
2022-09-06 12:45	6486307	8.288	-121.186	279.874	15.147	419.17	516.346	0.251	0.336	7.533	15.147	2.329
2022-09-06 13:00	6487207	8.271	-120.265	278.63	15.192	419.389	516.066	0.251	0.335	7.360	15.192	2.5
2022-09-06 13:15	6488107	8.273	-120.378	281.393	15.253	420.079	516.169	0.251	0.336	7.351	15.253	2.504
2022-09-06 13:30	6489007	8.270	-120.306	280.182	15.361	421.179	516.219	0.251	0.336	7.360	15.361	2.491
2022-09-06 13:45	6489907	8.270	-120.311	279.471	15.477	422.475	516.401	0.251	0.336	7.488	15.477	2.581
2022-09-06 14:00	6490807	8.265	-120.077	275.892	15.602	423.794	516.514	0.251	0.336	7.493	15.602	3.458
2022-09-06 14:15	6491707	8.274	-120.647	279.564	15.727	424.64	516.034	0.251	0.335	7.935	15.727	2.942
2022-09-06 14:30	6492607	8.276	-120.802	281.321	15.807	425.611	516.263	0.251	0.336	7.649	15.807	3.119
2022-09-06 14:45	6493507	8.275	-120.778	284.411	15.873	426.36	516.375	0.251	0.336	7.567	15.873	3.028
2022-09-06 15:00	6494407	8.270	-120.518	284.874	15.929	426.929	516.403	0.251	0.336	7.555	15.929	2.555
2022-09-06 15:15	6495307	8.271	-120.604	286.144	15.992	427.695	516.573	0.251	0.336	7.429	15.992	2.469
2022-09-06 15:30	6496207	8.268	-120.468	283.257	16.029	428.107	516.634	0.251	0.336	7.461	16.029	2.477
2022-09-06 15:45	6497107	8.294	-121.922	281.576	16.074	428.611	516.698	0.251	0.336	7.441	16.074	2.417
2022-09-06 16:00	6498007	8.280	-121.181	276.887	16.111	429.036	516.768	0.251	0.336	7.452	16.111	3.301
2022-09-06 16:15	6498907	8.292	-121.825	281.927	16.167	429.557	516.735	0.251	0.336	7.415	16.167	2.782
2022-09-06 16:30	6499807	8.316	-123.208	285.107	16.211	430.009	516.759	0.251	0.336	7.338	16.211	2.78
2022-09-06 16:45	6500707	8.314	-123.103	286.924	16.249	430.447	516.829	0.251	0.336	7.258	16.249	2.633
2022-09-06 17:00	6501607	8.314	-123.153	286.433	16.288	430.742	516.72	0.251	0.336	7.465	16.288	2.319
2022-09-06 17:15	6502507	8.315	-123.215	285.961	16.331	431.389	516.996	0.252	0.336	7.661	16.331	2.337
2022-09-06 17:30	6503407	8.306	-122.678	282.718	16.342	431.621	517.136	0.252	0.336	7.658	16.342	2.303
2022-09-06 17:45	6504307	8.291	-121.849	280.694	16.359	431.93	517.306	0.252	0.336	7.653	16.359	2.374
2022-09-06 18:00	6505207	8.296	-122.135	271.773	16.377	432.335	517.578	0.252	0.336	7.660	16.377	2.306
2022-09-06 18:15	6506107	8.302	-122.492	275.804	16.394	431.998	516.982	0.252	0.336	7.678	16.394	2.422
2022-09-06 18:30	6507007	8.310	-122.964	279.566	16.395	432.088	517.07	0.252	0.336	7.762	16.395	2.308
2022-09-06 18:45	6507907	8.319	-123.475	279.409	16.412	433.329	518.349	0.252	0.337	7.651	16.412	2.122
2022-09-06 19:00	6508807	8.282	-121.379	277.94	16.44	433.459	518.175	0.252	0.337	7.640	16.44	2.263
2022-09-06 19:15	6509707	8.294	-122.104	282.838	16.472	433.898	518.319	0.252	0.337	7.520	16.472	2.129
2022-09-06 19:30	6510607	8.248	-119.495	284.011	16.487	434.18	518.489	0.252	0.337	7.394	16.487	2.209
2022-09-06 19:45	6511507	8.266	-120.53	281.891	16.498	434.49	518.73	0.252	0.337	7.371	16.498	2.113
2022-09-06 20:00	6512407	8.253	-119.786	279.276	16.502	435.103	519.41	0.253	0.338	7.222	16.502	2.938
2022-09-06 20:15	6513307	8.309	-122.931	282.888	16.506	435.166	519.434	0.253	0.338	7.170	16.506	2.67
2022-09-06 20:30	6514207	8.305	-122.712	286.297	16.497	435.204	519.584	0.253	0.338	6.946	16.497	2.477
2022-09-06 20:45	6515107	8.354	-125.439	287.692	16.487	434.874	519.308	0.253	0.338	6.765	16.487	2.477
2022-09-06 21:00	6516007	8.309	-122.917	285.744	16.465	434.413	519.022	0.253	0.337	6.850	16.465	5.837
2022-09-06 21:15	6516907	8.294	-122.099	287.816	16.438	434.43	519.368	0.253	0.338	7.033	16.438	2.2
2022-09-06 21:30	6517807	8.289	-121.775	283.82	16.411	434.032	519.206	0.253	0.337	7.053	16.411	2.492
2022-09-06 21:45	6518707	8.336	-124.4	280.427	16.362	433.424	519.065	0.253	0.337	6.976	16.362	2.334
2022-09-06 22:00	6519607	8.241	-119.073	277.724	16.327	433.193	519.198	0.253	0.337	7.052	16.327	2.162
2022-09-06 22:15	6520507	8.273	-120.857	280.413	16.303	432.115	518.198	0.252	0.337	7.002	16.303	2.058
2022-09-06 22:30	6521407	8.295	-122.061	280.902	16.271	432.018	518.462	0.252	0.337	6.891	16.271	2.116
2022-09-06 22:45	6522307	8.275	-120.924	281.386	16.203	431.068	518.129	0.252	0.337	6.793	16.203	2.21

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-06 23:00	6523207	8.275	-120.919	278.658	16.196	431.889	519.193	0.253	0.337	7.034	16.196	3.375
2022-09-06 23:15	6524107	8.290	-121.727	281.882	16.16	431.53	519.192	0.253	0.337	6.894	16.16	2.274
2022-09-06 23:30	6525007	8.302	-122.349	281.35	16.075	430.141	518.531	0.252	0.337	7.049	16.075	2.833
2022-09-06 23:45	6525907	8.312	-122.907	282.258	15.981	428.91	518.177	0.252	0.337	7.416	15.981	2.962
2022-09-07 00:00	6526807	8.298	-122.082	275.094	15.889	428.227	518.446	0.252	0.337	7.683	15.889	3.097
2022-09-07 00:15	6527707	8.286	-121.357	279.588	15.851	427.572	518.113	0.252	0.337	7.626	15.851	2.758
2022-09-07 00:30	6528607	8.290	-121.601	283.074	15.803	427.359	518.423	0.252	0.337	7.643	15.803	2.657
2022-09-07 00:45	6529507	8.288	-121.441	283.729	15.748	426.921	518.556	0.252	0.337	7.652	15.748	2.579
2022-09-07 01:00	6530407	8.278	-120.895	281.092	15.73	427.13	519.03	0.252	0.337	7.517	15.73	2.938
2022-09-07 01:15	6531307	8.280	-121.007	284.867	15.703	426.858	519.019	0.252	0.337	7.460	15.703	2.695
2022-09-07 01:30	6532207	8.283	-121.16	285.157	15.67	426.638	519.156	0.253	0.337	7.387	15.67	2.64
2022-09-07 01:45	6533107	8.269	-120.32	284.714	15.644	426.549	519.355	0.253	0.338	7.362	15.644	2.646
2022-09-07 02:00	6534007	8.258	-119.743	278.331	15.628	426.619	519.636	0.253	0.338	7.293	15.628	2.94
2022-09-07 02:15	6534907	8.256	-119.627	281.915	15.623	426.599	519.676	0.253	0.338	7.266	15.623	2.585
2022-09-07 02:30	6535807	8.250	-119.262	284.886	15.605	426.441	519.694	0.253	0.338	7.227	15.605	2.625
2022-09-07 02:45	6536707	8.276	-120.711	286.037	15.572	426.012	519.571	0.253	0.338	7.097	15.572	2.553
2022-09-07 03:00	6537607	8.266	-120.153	282.075	15.562	426.059	519.751	0.253	0.338	7.266	15.562	2.928
2022-09-07 03:15	6538507	8.265	-120.077	286.428	15.559	426.095	519.839	0.253	0.338	7.212	15.559	2.509
2022-09-07 03:30	6539407	8.254	-119.495	285.885	15.551	425.933	519.733	0.253	0.338	7.271	15.551	4.388
2022-09-07 03:45	6540307	8.248	-119.128	285.575	15.518	425.789	519.959	0.253	0.338	7.055	15.518	2.503
2022-09-07 04:00	6541207	8.251	-119.276	279.881	15.485	425.406	519.889	0.253	0.338	7.611	15.485	3.567
2022-09-07 04:15	6542107	8.249	-119.178	283.984	15.475	425.589	520.235	0.253	0.338	7.301	15.475	3.165
2022-09-07 04:30	6543007	8.236	-118.449	288.128	15.463	425.577	520.362	0.253	0.338	7.089	15.463	3.596
2022-09-07 04:45	6543907	8.222	-117.65	289.633	15.452	425.506	520.411	0.253	0.338	6.991	15.452	3.221
2022-09-07 05:00	6544807	8.234	-118.332	291.99	15.433	425.134	520.193	0.253	0.338	6.927	15.433	2.443
2022-09-07 05:15	6545707	8.230	-118.077	289.99	15.427	425.059	520.166	0.253	0.338	6.972	15.427	2.331
2022-09-07 05:30	6546607	8.213	-117.109	288.543	15.421	425.185	520.398	0.253	0.338	6.727	15.421	2.195
2022-09-07 05:45	6547507	8.180	-115.285	287.773	15.41	425.179	520.523	0.253	0.338	6.527	15.41	3.344
2022-09-07 06:00	6548407	8.173	-114.908	284.566	15.38	424.816	520.449	0.253	0.338	***6.420***	15.38	2.208
2022-09-07 06:15	6549307	8.211	-116.966	286.874	15.347	424.393	520.322	0.253	0.338	6.601	15.347	2.964
2022-09-07 06:30	6550207	8.220	-117.459	285.453	15.319	423.997	520.18	0.253	0.338	6.786	15.319	3.394
2022-09-07 06:45	6551107	8.238	-118.461	286.04	15.294	423.756	520.187	0.253	0.338	6.768	15.294	3.096
2022-09-07 07:00	6552007	8.226	-117.788	279.624	15.282	423.581	520.121	0.253	0.338	7.005	15.282	2.61
2022-09-07 07:15	6552907	8.236	-118.334	285.675	15.278	423.655	520.259	0.253	0.338	6.844	15.278	2.746
2022-09-07 07:30	6553807	8.210	-116.901	285.355	15.259	423.557	520.374	0.253	0.338	6.649	15.259	2.848
2022-09-07 07:45	6554707	8.208	-116.796	285.274	15.242	423.585	520.62	0.253	0.338	6.588	15.242	2.344
2022-09-07 08:00	6555607	8.202	-116.439	280.649	15.183	422.868	520.45	0.253	0.338	***6.270***	15.183	3.377
2022-09-07 08:15	6556507	8.212	-116.978	286.497	15.145	422.691	520.702	0.253	0.338	***6.310***	15.145	3.816
2022-09-07 08:30	6557407	8.180	-115.151	291.459	15.128	422.589	520.78	0.253	0.339	***6.387***	15.128	3.5
2022-09-07 08:45	6558307	8.143	-113.08	291.304	15.093	422.455	521.046	0.253	0.339	6.905	15.093	3.646
2022-09-07 09:00	6559207	8.212	-116.949	291.967	15.052	421.227	520.038	0.253	0.338	7.271	15.052	2.571
2022-09-07 09:15	6560107	8.222	-117.478	292.081	15.009	420.271	519.39	0.252	0.338	6.844	15.009	3.183
2022-09-07 09:30	6561007	8.285	-120.966	285.639	14.99	420.108	519.414	0.253	0.338	7.343	14.99	3.2
2022-09-07 09:45	6561907	8.292	-121.331	283.834	14.957	419.654	519.262	0.252	0.338	7.476	14.957	3.042
2022-09-07 10:00	6562807	8.298	-121.632	280.906	14.901	419.074	519.234	0.252	0.338	7.563	14.901	3.145
2022-09-07 10:15	6563707	8.305	-122.035	284.433	14.866	418.734	519.242	0.252	0.338	7.716	14.866	3.309
2022-09-07 10:30	6564607	8.312	-122.39	283.694	14.829	418.248	519.085	0.252	0.337	7.779	14.829	3.227
2022-09-07 10:45	6565507	8.314	-122.499	284.661	14.83	418.223	519.048	0.252	0.337	7.769	14.83	3.133

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-07 11:00	6566407	8.317	-122.666	280.449	14.798	417.674	518.758	0.252	0.337	7.893	14.798	3.522
2022-09-07 11:15	6567307	8.332	-123.487	284.058	14.809	417.64	518.583	0.252	0.337	7.887	14.809	3.158
2022-09-07 11:30	6568207	8.331	-123.467	281.989	14.824	417.894	518.718	0.252	0.337	7.919	14.824	2.894
2022-09-07 11:45	6569108	8.340	-123.982	280.174	14.859	418.148	518.602	0.252	0.337	7.989	14.859	2.929
2022-09-07 12:00	6570008	8.326	-123.188	276.956	14.914	418.9	518.853	0.252	0.337	8.042	14.914	3.037
2022-09-07 12:15	6570908	8.345	-124.276	279.476	14.976	419.515	518.848	0.252	0.337	8.090	14.976	3.534
2022-09-07 12:30	6571808	8.355	-124.891	279.934	15.026	420.04	518.895	0.252	0.337	8.209	15.026	3.043
2022-09-07 12:45	6572708	8.355	-124.9	280.284	15.067	420.375	518.806	0.252	0.337	8.184	15.067	3.595
2022-09-07 13:00	6573608	8.349	-124.576	277.027	15.098	420.564	518.654	0.252	0.337	8.179	15.098	4.149
2022-09-07 13:15	6574508	8.370	-125.782	280.589	15.139	420.913	518.587	0.252	0.337	8.218	15.139	3.921
2022-09-07 13:30	6575408	8.366	-125.561	280.506	15.183	421.368	518.615	0.252	0.337	8.240	15.183	4.024
2022-09-07 13:45	6576308	8.376	-126.126	278.753	15.209	421.583	518.555	0.252	0.337	8.301	15.209	3.821
2022-09-07 14:00	6577208	8.376	-126.159	275.723	15.272	422.228	518.585	0.252	0.337	8.333	15.272	4.231
2022-09-07 14:15	6578108	8.381	-126.455	277.604	15.337	422.953	518.688	0.252	0.337	8.485	15.337	4.685
2022-09-07 14:30	6579008	8.383	-126.605	279.683	15.386	423.334	518.557	0.252	0.337	8.518	15.386	4.538
2022-09-07 14:45	6579908	8.388	-126.898	279.752	15.444	423.823	518.451	0.252	0.337	8.562	15.444	4.662
2022-09-07 15:00	6580808	8.384	-126.688	275.063	15.495	424.261	518.374	0.252	0.337	8.539	15.495	4.381
2022-09-07 15:15	6581708	8.404	-127.861	277.495	15.541	424.54	518.148	0.252	0.337	8.773	15.541	4.309
2022-09-07 15:30	6582608	8.405	-127.907	276.808	15.563	424.732	518.123	0.252	0.337	8.798	15.563	4.55
2022-09-07 15:45	6583508	8.408	-128.067	274.25	15.591	425.107	518.245	0.252	0.337	8.766	15.591	4.272
2022-09-07 16:00	6584408	8.402	-127.74	267.982	15.641	425.667	518.324	0.252	0.337	8.855	15.641	4.585
2022-09-07 16:15	6585308	8.410	-128.214	273.873	15.66	425.88	518.349	0.252	0.337	8.898	15.66	4.377
2022-09-07 16:30	6586208	8.409	-128.162	277.776	15.669	425.957	518.333	0.252	0.337	8.916	15.669	4.487
2022-09-07 16:45	6587108	8.411	-128.314	277.986	15.688	426.115	518.304	0.252	0.337	8.957	15.688	4.392
2022-09-07 17:00	6588008	8.404	-127.909	273.179	15.704	426.26	518.286	0.252	0.337	8.918	15.704	4.412
2022-09-07 17:15	6588908	8.414	-128.455	278.463	15.72	426.478	518.36	0.252	0.337	8.834	15.72	4.894
2022-09-07 17:30	6589808	8.411	-128.3	278.064	15.728	426.535	518.324	0.252	0.337	8.802	15.728	4.931
2022-09-07 17:45	6590708	8.409	-128.217	275.881	15.724	426.55	518.398	0.252	0.337	8.895	15.724	4.421
2022-09-07 18:00	6591608	8.399	-127.654	270.414	15.723	426.822	518.74	0.252	0.337	8.835	15.723	6.562
2022-09-07 18:15	6592508	8.408	-128.155	276.849	15.746	426.993	518.669	0.252	0.337	8.880	15.746	4.712
2022-09-07 18:30	6593408	8.411	-128.329	279.938	15.751	427.108	518.746	0.252	0.337	8.853	15.751	4.643
2022-09-07 18:45	6594308	8.414	-128.493	282.852	15.729	426.866	518.723	0.252	0.337	8.687	15.729	4.817
2022-09-07 19:00	6595208	8.397	-127.501	282.685	15.721	426.741	518.661	0.252	0.337	8.607	15.721	5.146
2022-09-07 19:15	6596108	8.401	-127.73	284.552	15.718	426.858	518.837	0.252	0.337	8.443	15.718	3.71
2022-09-07 19:30	6597008	8.398	-127.583	282.296	15.709	426.736	518.808	0.252	0.337	8.378	15.709	3.667
2022-09-07 19:45	6597908	8.394	-127.33	280.42	15.7	426.838	519.031	0.252	0.337	8.491	15.7	3.404
2022-09-07 20:00	6598808	8.378	-126.424	274.286	15.682	426.727	519.113	0.253	0.337	8.429	15.682	4.1
2022-09-07 20:15	6599708	8.371	-126.061	280.627	15.671	426.626	519.127	0.253	0.337	8.396	15.671	3.546
2022-09-07 20:30	6600608	8.370	-126.007	281.786	15.656	426.571	519.235	0.253	0.338	8.320	15.656	3.037
2022-09-07 20:45	6601508	8.366	-125.761	283.97	15.644	426.53	519.331	0.253	0.338	8.149	15.644	2.989
2022-09-07 21:00	6602408	8.334	-123.949	282.721	15.632	426.707	519.697	0.253	0.338	8.009	15.632	4.256
2022-09-07 21:15	6603308	8.336	-124.061	285.348	15.614	426.777	520.001	0.253	0.338	7.750	15.614	2.846
2022-09-07 21:30	6604208	8.345	-124.557	282.482	15.588	426.268	519.69	0.253	0.338	7.793	15.588	3.517
2022-09-07 21:45	6605108	8.335	-123.971	281.021	15.564	426.05	519.721	0.253	0.338	7.907	15.564	3.53
2022-09-07 22:00	6606008	8.319	-123.115	275.065	15.539	425.964	519.921	0.253	0.338	7.894	15.539	6.285
2022-09-07 22:15	6606908	8.361	-125.439	281.009	15.503	425.946	520.33	0.253	0.338	7.665	15.503	4.366
2022-09-07 22:30	6607808	8.336	-123.999	281.56	15.427	425.348	520.526	0.253	0.338	7.885	15.427	3.661
2022-09-07 22:45	6608708	8.272	-120.378	279.547	15.349	424.571	520.526	0.253	0.338	8.159	15.349	3.691

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-07 23:00	6609608	8.298	-121.818	279.867	15.278	423.046	519.519	0.253	0.338	8.082	15.278	3.979
2022-09-07 23:15	6610508	8.333	-123.761	283.608	15.244	422.529	519.297	0.253	0.338	8.129	15.244	3.379
2022-09-07 23:30	6611408	8.324	-123.193	283.729	15.157	421.573	519.177	0.252	0.337	8.158	15.157	3.496
2022-09-07 23:45	6612308	8.346	-124.428	283.546	15.12	421.274	519.262	0.252	0.338	8.169	15.12	3.709
2022-09-08 00:00	6613208	8.317	-122.774	279.531	15.082	421.273	519.73	0.253	0.338	7.957	15.082	3.751
2022-09-08 00:15	6614108	8.325	-123.208	283.751	15.06	421.208	519.914	0.253	0.338	7.980	15.06	4.153
2022-09-08 00:30	6615008	8.272	-120.251	285.324	14.985	420.419	519.859	0.253	0.338	8.075	14.985	3.698
2022-09-08 00:45	6615908	8.299	-121.741	285.234	14.944	420.194	520.084	0.253	0.338	7.987	14.944	3.753
2022-09-08 01:00	6616808	8.298	-121.665	282.709	14.925	419.965	520.032	0.253	0.338	7.643	14.925	3.547
2022-09-08 01:15	6617708	8.287	-121.019	285.815	14.915	419.89	520.069	0.253	0.338	7.428	14.915	3.875
2022-09-08 01:30	6618608	8.231	-117.915	286.624	14.899	419.818	520.172	0.253	0.338	7.372	14.899	3.451
2022-09-08 01:45	6619508	8.253	-119.152	271	14.883	419.383	519.826	0.253	0.338	7.448	14.883	3.368
2022-09-08 02:00	6620408	8.299	-121.677	271.048	14.841	419.287	520.23	0.253	0.338	7.542	14.841	3.122
2022-09-08 02:15	6621308	8.282	-120.714	278.455	14.827	419.135	520.213	0.253	0.338	7.526	14.827	3.423
2022-09-08 02:30	6622208	8.297	-121.543	280.329	14.8	418.896	520.254	0.253	0.338	7.842	14.8	3.323
2022-09-08 02:45	6623108	8.284	-120.826	281.934	14.788	419.027	520.567	0.253	0.338	7.571	14.788	3.61
2022-09-08 03:00	6624008	8.282	-120.716	280.816	14.769	418.684	520.376	0.253	0.338	7.420	14.769	3.08
2022-09-08 03:15	6624908	8.244	-118.582	284.991	14.753	418.174	519.934	0.253	0.338	7.768	14.753	3.912
2022-09-08 03:30	6625808	8.280	-120.592	284.669	14.729	417.998	520.011	0.253	0.338	7.804	14.729	3.301
2022-09-08 03:45	6626708	8.257	-119.283	285.51	14.713	417.943	520.147	0.253	0.338	7.644	14.713	3.361
2022-09-08 04:00	6627608	8.293	-121.264	274.603	14.658	417.536	520.321	0.253	0.338	7.622	14.658	3.197
2022-09-08 04:15	6628508	8.298	-121.536	280.966	14.621	416.997	520.102	0.253	0.338	7.786	14.621	3.474
2022-09-08 04:30	6629408	8.296	-121.396	283.641	14.604	417.21	520.575	0.253	0.338	8.034	14.604	3.38
2022-09-08 04:45	6630308	8.284	-120.704	285.429	14.568	416.457	520.08	0.253	0.338	7.938	14.568	3.207
2022-09-08 05:00	6631208	8.312	-122.249	284.368	14.516	415.752	519.845	0.253	0.338	8.013	14.516	3.569
2022-09-08 05:15	6632108	8.294	-121.26	288.219	14.516	415.686	519.766	0.253	0.338	8.016	14.516	3.655
2022-09-08 05:30	6633008	8.282	-120.571	287.635	14.509	415.65	519.812	0.253	0.338	8.057	14.509	3.648
2022-09-08 05:45	6633908	8.273	-120.103	285.272	14.509	415.783	519.98	0.253	0.338	7.982	14.509	3.371
2022-09-08 06:00	6634808	8.276	-120.273	280.773	14.5	416.123	520.514	0.253	0.338	7.767	14.5	3.201
2022-09-08 06:15	6635708	8.282	-120.585	284.015	14.503	416.559	521.016	0.253	0.339	7.994	14.503	3.574
2022-09-08 06:30	6636608	8.270	-119.901	286.369	14.489	416.01	520.503	0.253	0.338	7.588	14.489	3.217
2022-09-08 06:45	6637508	8.289	-120.966	286.895	14.484	416.139	520.73	0.253	0.338	7.684	14.484	3.219
2022-09-08 07:00	6638408	8.299	-121.508	283.221	14.468	415.758	520.457	0.253	0.338	7.743	14.468	3.135
2022-09-08 07:15	6639308	8.281	-120.506	286.888	14.468	415.705	520.383	0.253	0.338	7.578	14.468	3.298
2022-09-08 07:30	6640208	8.265	-119.605	286.762	14.446	415.127	519.932	0.253	0.338	7.499	14.446	3.262
2022-09-08 07:45	6641108	8.252	-118.916	285.703	14.424	415.162	520.253	0.253	0.338	7.519	14.424	3.072
2022-09-08 08:00	6642008	8.292	-121.062	279.183	14.351	414.777	520.687	0.253	0.338	7.455	14.351	3.28
2022-09-08 08:15	6642908	8.277	-120.234	284.235	14.332	414.656	520.766	0.253	0.338	7.690	14.332	3.575
2022-09-08 08:30	6643808	8.274	-120.091	285.207	14.33	414.703	520.85	0.253	0.339	7.737	14.33	3.459
2022-09-08 08:45	6644708	8.285	-120.704	285.97	14.341	414.851	520.894	0.253	0.339	7.534	14.341	3.31
2022-09-08 09:00	6645608	8.272	-119.953	282.458	14.361	414.887	520.697	0.253	0.338	7.419	14.361	2.9
2022-09-08 09:15	6646508	8.269	-119.822	286.781	14.394	415.21	520.688	0.253	0.338	7.332	14.394	2.507
2022-09-08 09:30	6647408	8.251	-118.849	286.066	14.422	415.461	520.648	0.253	0.338	7.204	14.422	3.192
2022-09-08 09:45	6648308	8.245	-118.52	284.678	14.45	415.761	520.675	0.253	0.338	7.258	14.45	2.7
2022-09-08 10:00	6649208	8.260	-119.364	273.575	14.493	416.266	520.783	0.253	0.339	7.316	14.493	3.002
2022-09-08 10:15	6650108	8.284	-120.695	279.335	14.523	416.532	520.733	0.253	0.338	8.196	14.523	3.971
2022-09-08 10:30	6651008	8.309	-122.125	279.533	14.554	416.463	520.261	0.253	0.338	8.522	14.554	3.383
2022-09-08 10:45	6651908	8.336	-123.603	280.542	14.566	416.353	519.981	0.253	0.338	8.731	14.566	3.624

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-08 11:00	6652808	8.367	-125.315	277.28	14.561	415.96	519.556	0.252	0.338	8.681	14.561	3.959
2022-09-08 11:15	6653708	8.377	-125.923	279.452	14.563	415.838	519.368	0.252	0.338	8.822	14.563	3.709
2022-09-08 11:30	6654608	8.381	-126.133	276.968	14.598	415.907	519.028	0.252	0.337	8.982	14.598	3.527
2022-09-08 11:45	6655508	8.406	-127.518	274.636	14.619	416.205	519.14	0.252	0.337	8.959	14.619	3.623
2022-09-08 12:00	6656408	8.407	-127.635	270.48	14.668	417.033	519.567	0.252	0.338	8.860	14.668	3.316
2022-09-08 12:15	6657308	8.399	-127.225	272.588	14.744	418.001	519.83	0.253	0.338	8.698	14.744	2.922
2022-09-08 12:30	6658208	8.371	-125.721	275.27	14.872	419.634	520.279	0.253	0.338	8.674	14.872	2.979
2022-09-08 12:45	6659108	8.364	-125.413	277.752	15.078	421.58	520.156	0.253	0.338	8.432	15.078	3.048
2022-09-08 13:00	6660008	8.377	-126.235	270.039	15.338	425.638	521.958	0.254	0.339	8.618	15.338	3.86
2022-09-08 13:15	6660908	8.372	-126.047	268.242	15.601	429.833	523.878	0.255	0.341	8.767	15.601	3.464
2022-09-08 13:30	6661808	8.396	-127.513	264.83	15.77	431.87	524.303	0.255	0.341	9.012	15.77	3.945
2022-09-08 13:45	6662708	8.428	-129.309	259.358	15.866	432.768	524.218	0.255	0.341	9.182	15.866	3.586
2022-09-08 14:00	6663608	8.427	-129.285	256.035	15.937	433.349	524.063	0.255	0.341	9.393	15.937	3.401
2022-09-08 14:15	6664508	8.449	-130.575	261.485	16.029	434.512	524.358	0.255	0.341	9.409	16.029	3.353
2022-09-08 14:30	6665408	8.452	-130.761	264.231	16.061	434.725	524.232	0.255	0.341	9.544	16.061	3.183
2022-09-08 14:45	6666308	8.452	-130.78	267.367	16.138	435.643	524.407	0.255	0.341	9.723	16.138	3.353
2022-09-08 15:00	6667208	8.439	-130.091	260.76	16.182	435.754	524.013	0.255	0.341	9.702	16.182	3.483
2022-09-08 15:15	6668108	8.467	-131.676	265.021	16.285	436.371	523.512	0.255	0.340	9.801	16.285	4.768
2022-09-08 15:30	6669008	8.488	-132.957	259.685	16.442	437.689	523.21	0.255	0.340	10.111	16.442	3.274
2022-09-08 15:45	6669908	8.502	-133.789	257.734	16.584	438.846	522.905	0.255	0.340	10.219	16.584	3.534
2022-09-08 16:00	6670808	8.478	-132.449	250.951	16.641	440.641	524.353	0.255	0.341	9.910	16.641	3.625
2022-09-08 16:15	6671708	8.504	-133.955	253.817	16.737	441.045	523.692	0.255	0.340	10.263	16.737	3.332
2022-09-08 16:30	6672608	8.490	-133.221	257.284	16.845	442.857	524.566	0.255	0.341	10.056	16.845	3.41
2022-09-08 16:45	6673508	8.503	-134.027	253.479	16.94	443.367	524.04	0.255	0.341	10.118	16.94	3.304
2022-09-08 17:00	6674408	8.481	-132.78	252.403	16.927	443.239	524.044	0.255	0.341	10.017	16.927	3.15
2022-09-08 17:15	6675308	8.493	-133.417	257.532	16.906	443.073	524.091	0.255	0.341	10.005	16.906	3.089
2022-09-08 17:30	6676208	8.498	-133.679	259.465	16.871	443.017	524.449	0.255	0.341	10.003	16.871	3.239
2022-09-08 17:45	6677108	8.470	-132.124	259.718	16.858	443.569	525.254	0.256	0.341	9.745	16.858	2.953
2022-09-08 18:00	6678008	8.443	-130.62	259.945	16.847	443.66	525.495	0.256	0.342	9.572	16.847	2.68
2022-09-08 18:15	6678908	8.447	-130.839	264.127	16.835	443.502	525.452	0.256	0.342	9.376	16.835	2.516
2022-09-08 18:30	6679808	8.428	-129.766	267.696	16.82	443.492	525.617	0.256	0.342	9.140	16.82	2.405
2022-09-08 18:45	6680708	8.401	-128.231	268.223	16.825	443.85	525.981	0.256	0.342	9.053	16.825	2.727
2022-09-08 19:00	6681608	8.405	-128.434	266.27	16.789	443.665	526.185	0.256	0.342	8.775	16.789	3.016
2022-09-08 19:15	6682508	8.432	-129.957	267.7	16.768	443.48	526.214	0.256	0.342	8.680	16.768	2.821
2022-09-08 19:30	6683408	8.460	-131.519	266.282	16.733	442.961	526.021	0.256	0.342	8.717	16.733	3.132
2022-09-08 19:45	6684308	8.465	-131.793	266.303	16.705	442.62	525.945	0.256	0.342	8.812	16.705	3.001
2022-09-08 20:00	6685208	8.439	-130.317	262.057	16.668	442.219	525.912	0.256	0.342	8.791	16.668	2.222
2022-09-08 20:15	6686108	8.432	-129.852	269.469	16.613	441.166	525.319	0.256	0.341	8.938	16.613	2.457
2022-09-08 20:30	6687008	8.406	-128.384	270.325	16.564	441.462	526.263	0.256	0.342	8.880	16.564	2.431
2022-09-08 20:45	6687908	8.394	-127.687	272.092	16.515	440.975	526.268	0.256	0.342	8.734	16.515	2.361
2022-09-08 21:00	6688808	8.372	-126.469	270.962	16.512	441.268	526.644	0.256	0.342	8.526	16.512	2.486
2022-09-08 21:15	6689708	8.347	-125.058	275.671	16.49	441.274	526.916	0.257	0.342	8.306	16.49	2.362
2022-09-08 21:30	6690608	8.353	-125.349	274.464	16.434	440.881	527.123	0.257	0.343	8.037	16.434	2.261
2022-09-08 21:45	6691508	8.354	-125.439	274.612	16.398	440.666	527.299	0.257	0.343	7.992	16.398	2.346
2022-09-08 22:00	6692408	8.309	-122.893	271.167	16.324	439.599	526.913	0.257	0.342	7.967	16.324	3.31
2022-09-08 22:15	6693308	8.378	-126.736	273.594	16.294	439.387	527.019	0.257	0.343	8.018	16.294	2.979
2022-09-08 22:30	6694208	8.391	-127.423	273.399	16.253	438.731	526.728	0.256	0.342	7.942	16.253	3.101
2022-09-08 22:45	6695108	8.371	-126.307	274.288	16.21	438.178	526.582	0.256	0.342	8.152	16.21	2.881

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-08 23:00	6696008	8.329	-123.889	277.89	16.166	437.779	526.638	0.256	0.342	8.143	16.166	2.105
2022-09-08 23:15	6696908	8.332	-124.078	280.763	16.13	437.38	526.6	0.256	0.342	7.494	16.13	2.175
2022-09-08 23:30	6697808	8.319	-123.336	277.745	16.087	436.959	526.61	0.256	0.342	7.443	16.087	2.227
2022-09-08 23:45	6698708	8.328	-123.799	277.697	16.064	436.817	526.714	0.256	0.342	7.384	16.064	2.061
2022-09-09 00:00	6699608	8.274	-120.773	274.686	16.01	436.736	527.276	0.257	0.343	7.209	16.01	2.001
2022-09-09 00:15	6700508	8.299	-122.156	278.639	15.949	435.738	526.806	0.256	0.342	7.180	15.949	2.178
2022-09-09 00:30	6701408	8.305	-122.449	281.846	15.919	435.338	526.686	0.256	0.342	7.210	15.919	2.206
2022-09-09 00:45	6702308	8.296	-121.968	281.684	15.898	435.321	526.922	0.256	0.342	7.146	15.898	2.094
2022-09-09 01:00	6703208	8.265	-120.206	279.121	15.876	435.612	527.55	0.257	0.343	7.034	15.876	2.121
2022-09-09 01:15	6704108	8.281	-121.071	281.946	15.83	435.434	527.895	0.257	0.343	7.003	15.83	2.4
2022-09-09 01:30	6705008	8.271	-120.494	281.109	15.796	435.015	527.795	0.257	0.343	6.967	15.796	2.315
2022-09-09 01:45	6705908	8.264	-120.111	280.494	15.757	434.833	528.058	0.257	0.343	6.856	15.757	2.078
2022-09-09 02:00	6706808	8.244	-118.988	276.653	15.68	433.755	527.686	0.257	0.343	6.714	15.68	2.892
2022-09-09 02:15	6707708	8.276	-120.726	279.814	15.64	433.481	527.851	0.257	0.343	6.795	15.64	3.064
2022-09-09 02:30	6708608	8.271	-120.411	282.299	15.598	433.03	527.82	0.257	0.343	6.798	15.598	3.173
2022-09-09 02:45	6709508	8.264	-120.032	285.098	15.532	432.442	527.91	0.257	0.343	6.897	15.532	2.958
2022-09-09 03:00	6710408	8.235	-118.363	285.737	15.473	431.518	527.5	0.257	0.343	6.666	15.473	2.241
2022-09-09 03:15	6711308	8.253	-119.357	286.714	15.417	431.142	527.739	0.257	0.343	6.648	15.417	2.035
2022-09-09 03:30	6712208	8.247	-118.964	286.812	15.324	430.235	527.771	0.257	0.343	6.645	15.324	2.069
2022-09-09 03:45	6713108	8.236	-118.337	284.301	15.241	429.248	527.585	0.257	0.343	6.597	15.241	2.467
2022-09-09 04:00	6714008	8.224	-117.643	280.055	15.14	428.463	527.873	0.257	0.343	6.581	15.14	2.234
2022-09-09 04:15	6714908	8.238	-118.372	283.381	15.043	426.524	526.693	0.256	0.342	6.610	15.043	2.322
2022-09-09 04:30	6715808	8.240	-118.444	285.446	14.919	425.27	526.686	0.256	0.342	6.873	14.919	2.425
2022-09-09 04:45	6716708	8.253	-119.123	286.538	14.816	424.034	526.435	0.256	0.342	6.844	14.816	2.56
2022-09-09 05:00	6717608	8.253	-119.052	281.305	14.737	423.713	527.027	0.256	0.343	6.885	14.737	2.68
2022-09-09 05:15	6718508	8.260	-119.474	285.808	14.695	423.039	526.709	0.256	0.342	6.825	14.695	2.562
2022-09-09 05:30	6719408	8.260	-119.433	285.436	14.666	422.385	526.256	0.256	0.342	6.847	14.666	2.463
2022-09-09 05:45	6720308	8.237	-118.141	286.106	14.632	421.596	525.701	0.256	0.342	7.056	14.632	2.802
2022-09-09 06:00	6721208	8.264	-119.612	280.17	14.544	420.341	525.237	0.255	0.341	7.349	14.544	2.484
2022-09-09 06:15	6722108	8.271	-119.96	284.666	14.503	419.375	524.541	0.255	0.341	7.471	14.503	2.937
2022-09-09 06:30	6723008	8.283	-120.664	286.34	14.478	419.23	524.672	0.255	0.341	7.665	14.478	2.718
2022-09-09 06:45	6723908	8.281	-120.533	288.085	14.464	419.121	524.709	0.255	0.341	7.614	14.464	2.497
2022-09-09 07:00	6724808	8.290	-120.997	284.127	14.433	418.603	524.455	0.255	0.341	7.652	14.433	3.588
2022-09-09 07:15	6725708	8.318	-122.554	288.607	14.409	418.186	524.235	0.255	0.341	7.583	14.409	2.686
2022-09-09 07:30	6726608	8.290	-120.966	287.379	14.386	417.896	524.163	0.255	0.341	7.715	14.386	2.957
2022-09-09 07:45	6727508	8.295	-121.276	283.856	14.362	417.71	524.229	0.255	0.341	7.559	14.362	2.433
2022-09-09 08:00	6728408	8.316	-122.38	277.118	14.308	417.26	524.334	0.255	0.341	7.578	14.308	2.516
2022-09-09 08:15	6729308	8.301	-121.534	281.092	14.287	416.907	524.159	0.255	0.341	7.541	14.287	2.987
2022-09-09 08:30	6730208	8.301	-121.57	283.982	14.268	416.743	524.197	0.255	0.341	7.697	14.268	2.898
2022-09-09 08:45	6731108	8.284	-120.58	285.556	14.27	417.001	524.489	0.255	0.341	7.757	14.27	2.456
2022-09-09 09:00	6732008	8.303	-121.639	282.723	14.245	416.59	524.29	0.255	0.341	7.727	14.245	3.952
2022-09-09 09:15	6732908	8.306	-121.794	286.595	14.234	416.29	524.053	0.255	0.341	7.658	14.234	4.024
2022-09-09 09:30	6733808	8.308	-121.889	284.063	14.216	416.109	524.056	0.255	0.341	7.599	14.216	2.828
2022-09-09 09:45	6734708	8.310	-122.008	282.468	14.207	415.93	523.932	0.255	0.341	7.721	14.207	2.667
2022-09-09 10:00	6735608	8.314	-122.225	279.03	14.197	416.171	524.373	0.255	0.341	7.606	14.197	2.174
2022-09-09 10:15	6736508	8.274	-120.025	281.653	14.202	416.458	524.668	0.255	0.341	7.450	14.202	2.703
2022-09-09 10:30	6737408	8.298	-121.336	282.375	14.18	415.728	524.021	0.255	0.341	7.713	14.18	2.942
2022-09-09 10:45	6738308	8.339	-123.644	281.464	14.18	415.633	523.903	0.255	0.341	7.781	14.18	2.399

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-09 11:00	6739208	8.309	-121.961	281.533	14.176	415.672	524.009	0.255	0.341	7.730	14.176	3.45
2022-09-09 11:15	6740108	8.351	-124.288	280.897	14.171	415.458	523.795	0.254	0.340	7.653	14.171	2.804
2022-09-09 11:30	6741008	8.321	-122.602	278.777	14.134	414.786	523.411	0.254	0.340	8.060	14.134	3.093
2022-09-09 11:45	6741908	8.345	-123.935	275.766	14.132	414.583	523.189	0.254	0.340	8.392	14.132	3.008
2022-09-09 12:00	6742808	8.363	-124.941	274.584	14.142	414.523	522.98	0.254	0.340	8.550	14.142	2.646
2022-09-09 12:15	6743708	8.376	-125.699	275.375	14.177	414.875	522.986	0.254	0.340	8.733	14.177	2.981
2022-09-09 12:30	6744608	8.372	-125.484	278.122	14.207	415.15	522.96	0.254	0.340	8.736	14.207	2.747
2022-09-09 12:45	6745508	8.360	-124.795	279.731	14.251	415.813	523.232	0.254	0.340	8.466	14.251	2.439
2022-09-09 13:00	6746408	8.353	-124.433	278.51	14.307	416.355	523.208	0.254	0.340	8.216	14.307	2.995
2022-09-09 13:15	6747308	8.340	-123.77	283.844	14.377	417.067	523.231	0.254	0.340	8.225	14.377	2.473
2022-09-09 13:30	6748208	8.334	-123.46	282.537	14.444	417.74	523.229	0.254	0.340	8.269	14.444	2.525
2022-09-09 13:45	6749108	8.325	-122.981	282.897	14.517	418.654	523.465	0.254	0.340	8.158	14.517	2.402
2022-09-09 14:00	6750008	8.328	-123.162	275.64	14.583	419.367	523.536	0.254	0.340	8.076	14.583	2.3
2022-09-09 14:15	6750908	8.333	-123.491	278.465	14.666	420.268	523.615	0.255	0.340	8.063	14.666	2.458
2022-09-09 14:30	6751808	8.323	-122.988	279.996	14.75	421.06	523.558	0.255	0.340	8.112	14.75	2.446
2022-09-09 14:45	6752708	8.353	-124.669	281.388	14.821	421.749	523.539	0.255	0.340	8.271	14.821	2.995
2022-09-09 15:00	6753608	8.350	-124.559	278.265	14.911	422.593	523.469	0.255	0.340	8.299	14.911	2.743
2022-09-09 15:15	6754508	8.372	-125.821	281.138	14.991	423.327	523.381	0.254	0.340	8.524	14.991	2.586
2022-09-09 15:30	6755408	8.382	-126.388	280.437	14.987	423.461	523.597	0.255	0.340	8.408	14.987	2.812
2022-09-09 15:45	6756308	8.374	-125.911	280.115	15.034	423.933	523.597	0.255	0.340	8.496	15.034	3.002
2022-09-09 16:00	6757208	8.362	-125.32	277.988	15.088	424.273	523.35	0.255	0.340	8.628	15.088	2.867
2022-09-09 16:15	6758108	8.383	-126.452	280.914	15.089	424.149	523.191	0.254	0.340	8.656	15.089	3.476
2022-09-09 16:30	6759008	8.389	-126.824	282.761	15.109	424.306	523.138	0.254	0.340	8.961	15.109	3.838
2022-09-09 16:45	6759908	8.395	-127.137	283.434	15.068	423.993	523.252	0.254	0.340	8.831	15.068	3.565
2022-09-09 17:00	6760808	8.390	-126.839	279.104	15.072	424.21	523.472	0.255	0.340	8.823	15.072	3.548
2022-09-09 17:15	6761708	8.397	-127.206	281.922	15.054	424.434	523.977	0.255	0.341	9.010	15.054	3.685
2022-09-09 17:30	6762608	8.398	-127.246	282.084	15.014	424.676	524.765	0.255	0.341	8.883	15.014	3.961
2022-09-09 17:45	6763508	8.391	-126.867	281.598	14.977	424.401	524.89	0.255	0.341	8.915	14.977	4.271
2022-09-09 18:00	6764408	8.388	-126.655	279.798	14.947	424.406	525.265	0.255	0.341	8.881	14.947	3.608
2022-09-09 18:15	6765308	8.388	-126.696	282.661	14.932	424.398	525.434	0.256	0.342	8.845	14.932	4.1
2022-09-09 18:30	6766208	8.392	-126.882	284.766	14.916	424.302	525.515	0.256	0.342	8.891	14.916	4.202
2022-09-09 18:45	6767108	8.382	-126.314	285.3	14.89	424.14	525.645	0.256	0.342	8.767	14.89	4.139
2022-09-09 19:00	6768008	8.368	-125.546	283.238	14.893	424.31	525.815	0.256	0.342	8.700	14.893	3.743
2022-09-09 19:15	6768908	8.379	-126.133	286.693	14.898	424.477	525.96	0.256	0.342	8.505	14.898	3.681
2022-09-09 19:30	6769808	8.368	-125.561	285.894	14.894	424.45	525.973	0.256	0.342	8.575	14.894	3.513
2022-09-09 19:45	6770708	8.375	-125.957	285.775	14.891	424.374	525.925	0.256	0.342	8.613	14.891	3.341
2022-09-09 20:00	6771608	8.369	-125.563	280.909	14.87	424.219	525.984	0.256	0.342	8.457	14.87	3.333
2022-09-09 20:15	6772508	8.372	-125.771	284.337	14.853	423.977	525.9	0.256	0.342	8.381	14.853	3.051
2022-09-09 20:30	6773408	8.367	-125.442	286.073	14.839	423.96	526.055	0.256	0.342	8.329	14.839	3.401
2022-09-09 20:45	6774308	8.367	-125.473	286.838	14.822	423.766	526.029	0.256	0.342	8.170	14.822	3.117
2022-09-09 21:00	6775208	8.342	-124.054	285.067	14.824	424.088	526.406	0.256	0.342	8.165	14.824	2.855
2022-09-09 21:15	6776108	8.351	-124.55	288.507	14.792	423.775	526.409	0.256	0.342	7.963	14.792	3.115
2022-09-09 21:30	6777008	8.347	-124.347	287.554	14.781	423.583	526.309	0.256	0.342	8.139	14.781	2.959
2022-09-09 21:45	6777908	8.357	-124.848	285.267	14.759	423.394	526.353	0.256	0.342	8.158	14.759	3.429
2022-09-09 22:00	6778808	8.349	-124.445	281.212	14.738	423.317	526.517	0.256	0.342	8.173	14.738	3.24
2022-09-09 22:15	6779708	8.334	-123.563	286.495	14.726	423.21	526.539	0.256	0.342	8.021	14.726	2.906
2022-09-09 22:30	6780608	8.315	-122.499	288.896	14.7	423.115	526.735	0.256	0.342	7.925	14.7	2.848
2022-09-09 22:45	6781508	8.333	-123.503	288.462	14.655	422.35	526.353	0.256	0.342	7.884	14.655	2.668

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-09 23:00	6782408	8.302	-121.734	286.314	14.602	421.957	526.521	0.256	0.342	7.875	14.602	2.952
2022-09-09 23:15	6783308	8.312	-122.302	289.015	14.596	422.026	526.691	0.256	0.342	7.719	14.596	2.95
2022-09-09 23:30	6784208	8.299	-121.591	288.014	14.567	421.66	526.592	0.256	0.342	7.680	14.567	2.851
2022-09-09 23:45	6785108	8.289	-121	286.061	14.549	421.719	526.888	0.256	0.342	7.579	14.549	2.434
2022-09-10 00:00	6786008	8.265	-119.629	282.711	14.523	421.806	527.329	0.256	0.343	7.379	14.523	2.268
2022-09-10 00:15	6786908	8.303	-121.734	286.547	14.484	421.097	526.932	0.256	0.343	7.148	14.484	2.247
2022-09-10 00:30	6787808	8.303	-121.72	288.133	14.444	420.553	526.759	0.256	0.342	7.216	14.444	2.331
2022-09-10 00:45	6788708	8.301	-121.605	290.348	14.406	420.046	526.6	0.256	0.342	7.343	14.406	2.236
2022-09-10 01:00	6789608	8.284	-120.637	288.815	14.326	419.532	526.963	0.256	0.343	7.413	14.326	3.077
2022-09-10 01:15	6790508	8.285	-120.661	291.378	14.332	419.654	527.045	0.256	0.343	7.360	14.332	2.371
2022-09-10 01:30	6791408	8.282	-120.513	289.709	14.291	419.227	527.025	0.256	0.343	7.179	14.291	2.711
2022-09-10 01:45	6792308	8.278	-120.223	288.681	14.218	418.476	527.01	0.256	0.343	7.362	14.218	2.661
2022-09-10 02:00	6793208	8.268	-119.681	283.994	14.141	417.965	527.341	0.256	0.343	7.305	14.141	2.754
2022-09-10 02:15	6794108	8.277	-120.142	287.768	14.128	417.514	526.931	0.256	0.343	7.275	14.128	2.958
2022-09-10 02:30	6795008	8.264	-119.414	288.915	14.12	417.619	527.165	0.256	0.343	7.292	14.12	2.653
2022-09-10 02:45	6795908	8.260	-119.202	289.516	14.077	416.839	526.729	0.256	0.342	7.326	14.077	2.928
2022-09-10 03:00	6796808	8.288	-120.745	286.128	14.031	416.507	526.902	0.256	0.342	7.558	14.031	2.984
2022-09-10 03:15	6797708	8.300	-121.405	289.859	14.027	416.411	526.82	0.256	0.342	7.505	14.027	3.216
2022-09-10 03:30	6798608	8.313	-122.113	287.384	13.991	415.879	526.605	0.256	0.342	7.518	13.991	3.389
2022-09-10 03:45	6799508	8.307	-121.741	284.843	13.974	415.912	526.864	0.256	0.342	7.650	13.974	3.184
2022-09-10 04:00	6800408	8.300	-121.341	282.084	13.925	415.474	526.936	0.256	0.343	7.630	13.925	3.12
2022-09-10 04:15	6801308	8.293	-120.95	285.799	13.883	414.867	526.71	0.256	0.342	7.656	13.883	2.972
2022-09-10 04:30	6802208	8.264	-119.321	287.821	13.838	414.47	526.776	0.256	0.342	7.836	13.838	3.182
2022-09-10 04:45	6803108	8.276	-119.941	289.554	13.792	413.953	526.703	0.256	0.342	7.786	13.792	3.296
2022-09-10 05:00	6804008	8.303	-121.439	287.298	13.768	413.607	526.57	0.256	0.342	7.805	13.768	4.109
2022-09-10 05:15	6804908	8.299	-121.2	290.689	13.768	413.534	526.486	0.256	0.342	7.864	13.768	2.648
2022-09-10 05:30	6805808	8.308	-121.691	288.686	13.747	413.221	526.345	0.256	0.342	7.840	13.747	3.085
2022-09-10 05:45	6806708	8.311	-121.896	283.965	13.744	413.406	526.623	0.256	0.342	7.851	13.744	2.444
2022-09-10 06:00	6807608	8.284	-120.356	278.937	13.714	413.441	527.06	0.256	0.343	7.587	13.714	2.367
2022-09-10 06:15	6808509	8.278	-120.056	285.889	13.688	412.949	526.763	0.256	0.342	7.501	13.688	2.937
2022-09-10 06:30	6809409	8.290	-120.687	288.791	13.665	412.807	526.876	0.256	0.342	7.732	13.665	2.513
2022-09-10 06:45	6810309	8.271	-119.61	292.05	13.638	412.307	526.579	0.256	0.342	7.736	13.638	2.911
2022-09-10 07:00	6811209	8.304	-121.427	287.642	13.589	411.851	526.629	0.256	0.342	7.833	13.589	3.248
2022-09-10 07:15	6812109	8.305	-121.5	291.261	13.58	411.8	526.682	0.256	0.342	7.712	13.58	3.09
2022-09-10 07:30	6813009	8.276	-119.853	290.703	13.559	411.695	526.817	0.256	0.342	7.579	13.559	2.91
2022-09-10 07:45	6813909	8.293	-120.78	290.016	13.523	411.244	526.706	0.256	0.342	7.587	13.523	2.721
2022-09-10 08:00	6814809	8.297	-121.002	282.931	13.459	410.733	526.874	0.256	0.342	7.607	13.459	2.878
2022-09-10 08:15	6815709	8.278	-119.963	287.446	13.466	410.872	526.963	0.256	0.343	7.581	13.466	2.606
2022-09-10 08:30	6816609	8.291	-120.656	289.785	13.442	410.401	526.672	0.256	0.342	7.674	13.442	3.055
2022-09-10 08:45	6817509	8.306	-121.458	290.407	13.419	410.173	526.669	0.256	0.342	7.738	13.419	2.919
2022-09-10 09:00	6818409	8.308	-121.589	287.761	13.402	409.9	526.543	0.256	0.342	7.791	13.402	3.173
2022-09-10 09:15	6819309	8.314	-121.88	290.598	13.404	409.882	526.488	0.256	0.342	7.858	13.404	2.514
2022-09-10 09:30	6820209	8.324	-122.435	287.666	13.39	409.672	526.408	0.256	0.342	7.834	13.39	2.977
2022-09-10 09:45	6821109	8.320	-122.225	284.955	13.376	409.537	526.406	0.256	0.342	7.864	13.376	2.791
2022-09-10 10:00	6822009	8.304	-121.331	277.962	13.373	409.865	526.865	0.256	0.342	7.883	13.373	2.696
2022-09-10 10:15	6822909	8.300	-121.145	282.783	13.388	410.124	527.008	0.256	0.343	7.786	13.388	2.966
2022-09-10 10:30	6823809	8.273	-119.627	284.924	13.403	410.6	527.427	0.256	0.343	7.525	13.403	2.968
2022-09-10 10:45	6824709	8.267	-119.293	286.853	13.413	410.497	527.165	0.256	0.343	7.365	13.413	2.812

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-10 11:00	6825609	8.295	-120.831	283.941	13.413	410.258	526.853	0.256	0.342	7.363	13.413	2.211
2022-09-10 11:15	6826509	8.283	-120.227	285.556	13.449	410.577	526.798	0.256	0.342	7.532	13.449	2.531
2022-09-10 11:30	6827409	8.264	-119.19	285.079	13.478	411.145	527.15	0.256	0.343	7.368	13.478	2.283
2022-09-10 11:45	6828309	8.258	-118.835	283.727	13.489	410.744	526.494	0.256	0.342	7.667	13.489	2.655
2022-09-10 12:00	6829209	8.265	-119.259	279.233	13.524	411.414	526.902	0.256	0.342	7.859	13.524	3.016
2022-09-10 12:15	6830109	8.299	-121.136	279.841	13.598	412.191	526.951	0.256	0.343	8.072	13.598	3.302
2022-09-10 12:30	6831009	8.298	-121.15	278.944	13.669	412.925	526.972	0.256	0.343	8.207	13.669	3.146
2022-09-10 12:45	6831909	8.288	-120.614	281.209	13.731	413.582	527.019	0.256	0.343	8.229	13.731	3.667
2022-09-10 13:00	6832809	8.307	-121.648	280.57	13.767	413.765	526.782	0.256	0.342	8.056	13.767	2.808
2022-09-10 13:15	6833709	8.320	-122.411	282.728	13.857	414.513	526.592	0.256	0.342	8.273	13.857	3.412
2022-09-10 13:30	6834609	8.318	-122.335	281.059	13.932	415.556	526.949	0.256	0.343	8.175	13.932	3.287
2022-09-10 13:45	6835509	8.342	-123.758	279.81	14.082	416.788	526.604	0.256	0.342	8.443	14.082	3.81
2022-09-10 14:00	6836409	8.339	-123.594	273.911	14.15	417.702	526.887	0.256	0.342	8.362	14.15	3.569
2022-09-10 14:15	6837309	8.341	-123.732	277.633	14.233	418.585	526.947	0.256	0.343	8.450	14.233	3.716
2022-09-10 14:30	6838209	8.336	-123.532	278.904	14.37	420.143	527.178	0.256	0.343	8.570	14.37	3.603
2022-09-10 14:45	6839109	8.354	-124.576	277.259	14.498	421.291	527.004	0.256	0.343	8.706	14.498	3.828
2022-09-10 15:00	6840009	8.362	-125.07	277.843	14.615	422.306	526.801	0.256	0.342	8.841	14.615	3.919
2022-09-10 15:15	6840909	8.383	-126.264	277.762	14.687	422.945	526.694	0.256	0.342	9.010	14.687	4.205
2022-09-10 15:30	6841809	8.389	-126.657	276.856	14.76	423.777	526.809	0.256	0.342	9.047	14.76	4.381
2022-09-10 15:45	6842709	8.405	-127.592	274.641	14.835	424.065	526.235	0.256	0.342	9.350	14.835	4.439
2022-09-10 16:00	6843609	8.415	-128.167	270.881	14.907	424.547	525.94	0.256	0.342	9.455	14.907	3.829
2022-09-10 16:15	6844509	8.426	-128.813	276.305	15.009	425.403	525.727	0.256	0.342	9.669	15.009	4.065
2022-09-10 16:30	6845409	8.435	-129.349	276.362	15.003	424.524	524.717	0.255	0.341	10.058	15.003	4.246
2022-09-10 16:45	6846309	8.486	-132.203	273.699	15.125	424.864	523.621	0.255	0.340	10.752	15.125	4.125
2022-09-10 17:00	6847209	8.496	-132.818	269.219	15.233	426.199	523.944	0.255	0.341	10.477	15.233	4.346
2022-09-10 17:15	6848109	8.481	-132.039	275.12	15.367	427.888	524.365	0.255	0.341	10.389	15.367	4.003
2022-09-10 17:30	6849009	8.464	-131.164	272.648	15.484	429.688	525.128	0.255	0.341	10.103	15.484	3.817
2022-09-10 17:45	6849909	8.444	-130.112	270.225	15.612	431.667	525.977	0.256	0.342	9.882	15.612	3.534
2022-09-10 18:00	6850809	8.449	-130.486	268.928	15.836	433.899	525.957	0.256	0.342	9.767	15.836	5.401
2022-09-10 18:15	6851709	8.432	-129.74	268.704	16.264	438.626	526.469	0.256	0.342	9.705	16.264	4.398
2022-09-10 18:30	6852609	8.426	-129.483	271.527	16.499	441.526	527.109	0.257	0.343	9.557	16.499	4.089
2022-09-10 18:45	6853509	8.409	-128.558	271.248	16.536	442.144	527.408	0.257	0.343	9.431	16.536	3.694
2022-09-10 19:00	6854409	8.517	-134.554	265.671	16.387	437.906	524.134	0.255	0.341	11.202	16.387	3.499
2022-09-10 19:15	6855309	8.497	-133.414	268.764	16.422	438.957	524.966	0.256	0.341	10.543	16.422	2.829
2022-09-10 19:30	6856209	8.454	-131.013	268.69	16.424	439.424	525.499	0.256	0.342	10.079	16.424	2.558
2022-09-10 19:45	6857109	8.453	-130.997	269.696	16.433	439.755	525.787	0.256	0.342	9.835	16.433	2.663
2022-09-10 20:00	6858009	8.383	-127.087	267.991	16.476	440.658	526.351	0.256	0.342	9.859	16.476	3.057
2022-09-10 20:15	6858909	8.386	-127.294	270.926	16.546	441.754	526.816	0.257	0.342	9.634	16.546	2.844
2022-09-10 20:30	6859809	8.389	-127.454	272.469	16.576	442.175	526.962	0.257	0.343	9.484	16.576	2.817
2022-09-10 20:45	6860709	8.370	-126.417	274.064	16.588	442.419	527.107	0.257	0.343	9.512	16.588	2.423
2022-09-10 21:00	6861609	8.369	-126.348	274.262	16.594	442.487	527.12	0.257	0.343	9.178	16.594	2.85
2022-09-10 21:15	6862509	8.358	-125.716	275.859	16.625	442.662	526.95	0.257	0.343	9.245	16.625	2.111
2022-09-10 21:30	6863409	8.339	-124.655	276.672	16.629	442.848	527.132	0.257	0.343	8.978	16.629	2.124
2022-09-10 21:45	6864309	8.363	-126.035	276.481	16.613	442.978	527.472	0.257	0.343	8.814	16.613	2.216
2022-09-10 22:00	6865209	8.323	-123.765	271.692	16.534	442.6	527.974	0.257	0.343	8.612	16.534	2.036
2022-09-10 22:15	6866109	8.365	-126.057	275.351	16.489	440.808	526.376	0.256	0.342	8.440	16.489	2.019
2022-09-10 22:30	6867009	8.379	-126.839	276.398	16.435	440.601	526.776	0.257	0.342	8.563	16.435	2.297
2022-09-10 22:45	6867909	8.413	-128.696	276.353	16.384	440.132	526.836	0.257	0.342	9.084	16.384	2.304

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-10 23:00	6868809	8.396	-127.749	273.134	16.341	439.516	526.607	0.256	0.342	9.424	16.341	2.61
2022-09-10 23:15	6869709	8.422	-129.194	274.233	16.308	438.898	526.268	0.256	0.342	9.289	16.308	2.289
2022-09-10 23:30	6870609	8.415	-128.789	274.278	16.252	438.44	526.397	0.256	0.342	9.127	16.252	2.196
2022-09-10 23:45	6871509	8.415	-128.753	274.235	16.194	437.847	526.381	0.256	0.342	9.005	16.194	2.03
2022-09-11 00:00	6872409	8.371	-126.231	271.229	16.08	436.692	526.374	0.256	0.342	8.818	16.08	2.245
2022-09-11 00:15	6873309	8.371	-126.221	275.771	16.014	436.022	526.364	0.256	0.342	8.627	16.014	2.317
2022-09-11 00:30	6874209	8.355	-125.253	276.586	15.944	435.461	526.532	0.256	0.342	8.516	15.944	2.137
2022-09-11 00:45	6875109	8.368	-125.98	276.939	15.904	435.839	527.477	0.257	0.343	8.384	15.904	2.064
2022-09-11 01:00	6876009	8.328	-123.744	276.348	15.891	436.35	528.251	0.257	0.343	8.241	15.891	2.857
2022-09-11 01:15	6876909	8.340	-124.426	276.77	15.873	436.329	528.45	0.257	0.343	7.997	15.873	2.06
2022-09-11 01:30	6877809	8.345	-124.657	276.894	15.854	436.466	528.854	0.257	0.344	7.871	15.854	2.017
2022-09-11 01:45	6878709	8.332	-123.947	276.837	15.806	436.375	529.323	0.258	0.344	7.575	15.806	2.08
2022-09-11 02:00	6879609	8.310	-122.643	272.972	15.706	435.205	529.136	0.258	0.344	7.585	15.706	3.128
2022-09-11 02:15	6880509	8.354	-125.103	275.587	15.676	435.149	529.435	0.258	0.344	7.729	15.676	3.486
2022-09-11 02:30	6881409	8.336	-124.075	277.883	15.62	434.319	529.115	0.258	0.344	7.641	15.62	3.055
2022-09-11 02:45	6882309	8.327	-123.549	280.911	15.563	433.579	528.916	0.257	0.344	7.575	15.563	3.114
2022-09-11 03:00	6883209	8.303	-122.18	282.273	15.488	433.014	529.146	0.258	0.344	7.578	15.488	2.085
2022-09-11 03:15	6884109	8.320	-123.084	284.099	15.434	432.864	529.636	0.258	0.344	7.602	15.434	2.076
2022-09-11 03:30	6885009	8.293	-121.553	280.57	15.372	432.499	529.955	0.258	0.344	7.499	15.372	2.509
2022-09-11 03:45	6885909	8.291	-121.443	278.877	15.319	432.348	530.431	0.258	0.345	7.240	15.319	1.982
2022-09-11 04:00	6886809	8.283	-120.928	274.464	15.239	431.646	530.565	0.258	0.345	7.094	15.239	2.082
2022-09-11 04:15	6887709	8.275	-120.497	278.246	15.165	430.607	530.203	0.258	0.345	7.078	15.165	1.961
2022-09-11 04:30	6888609	8.264	-119.841	280.663	15.082	430.043	530.545	0.258	0.345	6.975	15.082	1.972
2022-09-11 04:45	6889509	8.271	-120.208	281.622	15.039	429.514	530.436	0.258	0.345	6.878	15.039	1.873
2022-09-11 05:00	6890409	8.241	-118.508	280.434	14.99	429.7	531.273	0.258	0.345	6.757	14.99	2.066
2022-09-11 05:15	6891309	8.251	-119.076	282.997	14.959	429.457	531.366	0.258	0.345	6.621	14.959	2.03
2022-09-11 05:30	6892209	8.234	-118.077	280.792	14.882	428.816	531.536	0.259	0.345	6.540	14.882	2.089
2022-09-11 05:45	6893109	8.234	-118.072	281.443	14.825	428.146	531.424	0.258	0.345	6.503	14.825	1.993
2022-09-11 06:00	6894009	8.235	-118.067	278.563	14.71	426.806	531.208	0.258	0.345	***6.388***	14.71	2.198
2022-09-11 06:15	6894909	8.241	-118.389	281.986	14.633	425.216	530.198	0.258	0.345	6.514	14.633	2.259
2022-09-11 06:30	6895809	8.245	-118.549	283.398	14.569	424.558	530.187	0.258	0.345	6.742	14.569	2.166
2022-09-11 06:45	6896709	8.253	-119.004	285.505	14.498	423.715	530.031	0.258	0.345	6.842	14.498	2.185
2022-09-11 07:00	6897609	8.247	-118.637	281.336	14.436	423.355	530.371	0.258	0.345	6.886	14.436	2.384
2022-09-11 07:15	6898509	8.272	-119.989	286.023	14.393	423.965	531.678	0.258	0.346	6.833	14.393	2.349
2022-09-11 07:30	6899409	8.280	-120.401	284.795	14.344	422.277	530.183	0.258	0.345	6.960	14.344	2.322
2022-09-11 07:45	6900309	8.276	-120.184	283.004	14.286	421.704	530.21	0.258	0.345	6.918	14.286	2.482
2022-09-11 08:00	6901209	8.271	-119.846	281.526	14.205	420.819	530.119	0.258	0.345	7.019	14.205	2.31
2022-09-11 08:15	6902109	8.278	-120.201	283.567	14.166	420.06	529.657	0.257	0.344	7.045	14.166	2.31
2022-09-11 08:30	6903009	8.280	-120.306	285.463	14.101	419.257	529.477	0.257	0.344	7.118	14.101	2.404
2022-09-11 08:45	6903909	8.274	-119.948	287.313	14.079	419.12	529.59	0.257	0.344	7.236	14.079	2.267
2022-09-11 09:00	6904809	8.270	-119.693	284.654	14.003	418.424	529.676	0.257	0.344	7.165	14.003	2.671
2022-09-11 09:15	6905709	8.273	-119.867	288.288	13.99	418.286	529.671	0.257	0.344	7.208	13.99	2.891
2022-09-11 09:30	6906609	8.289	-120.749	284.304	13.971	418.148	529.739	0.257	0.344	7.227	13.971	2.686
2022-09-11 09:45	6907509	8.270	-119.684	281.715	13.953	417.753	529.474	0.257	0.344	7.289	13.953	2.989
2022-09-11 10:00	6908409	8.272	-119.801	278.47	13.921	417.495	529.547	0.257	0.344	7.439	13.921	2.211
2022-09-11 10:15	6909309	8.274	-119.879	281.235	13.917	417.342	529.413	0.257	0.344	7.449	13.917	2.538
2022-09-11 10:30	6910209	8.291	-120.831	282.175	13.901	417.177	529.409	0.257	0.344	7.613	13.901	2.765
2022-09-11 10:45	6911109	8.328	-122.879	282.249	13.894	417.207	529.532	0.257	0.344	7.726	13.894	2.746

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-11 11:00	6912009	8.295	-121.083	281.216	13.905	417.383	529.616	0.257	0.344	7.646	13.905	2.489
2022-09-11 11:15	6912909	8.293	-120.981	283.5	13.924	417.469	529.48	0.257	0.344	7.796	13.924	2.69
2022-09-11 11:30	6913809	8.294	-121.045	282.027	13.937	417.702	529.61	0.257	0.344	7.657	13.937	1.906
2022-09-11 11:45	6914709	8.248	-118.47	282.635	13.955	418.057	529.825	0.257	0.344	7.639	13.955	1.846
2022-09-11 12:00	6915609	8.215	-116.63	280.501	13.97	418.728	530.493	0.258	0.345	7.193	13.97	1.755
2022-09-11 12:15	6916509	8.195	-115.573	283.522	13.994	419.31	530.917	0.258	0.345	6.596	13.994	1.751
2022-09-11 12:30	6917409	8.171	-114.212	285.684	14.028	419.844	531.154	0.258	0.345	***6.356***	14.028	1.824
2022-09-11 12:45	6918309	8.159	-113.571	287.32	14.078	420.378	531.187	0.258	0.345	***6.325***	14.078	1.852
2022-09-11 13:00	6919209	8.178	-114.644	285.165	14.147	420.295	530.201	0.258	0.345	6.579	14.147	2.029
2022-09-11 13:15	6920109	8.189	-115.309	285.25	14.222	421.174	530.356	0.258	0.345	6.794	14.222	1.761
2022-09-11 13:30	6921009	8.177	-114.691	283.324	14.311	421.459	529.572	0.257	0.344	6.793	14.311	2.221
2022-09-11 13:45	6921909	8.204	-116.22	280.997	14.466	422.769	529.253	0.257	0.344	6.978	14.466	2.256
2022-09-11 14:00	6922809	8.241	-118.327	275.959	14.581	423.901	529.212	0.257	0.344	7.415	14.581	2.086
2022-09-11 14:15	6923709	8.237	-118.16	277.244	14.696	424.995	529.135	0.257	0.344	8.095	14.696	2.704
2022-09-11 14:30	6924609	8.253	-119.171	275.597	14.92	426.942	528.743	0.257	0.344	8.565	14.92	3.284
2022-09-11 14:45	6925509	8.307	-122.44	272.042	15.64	431.555	525.501	0.256	0.342	9.353	15.64	2.882
2022-09-11 15:00	6926409	8.375	-126.576	252.704	16.385	442.719	529.915	0.258	0.344	9.134	16.385	3.522
2022-09-11 15:15	6927309	8.344	-125.051	253.607	16.806	448.174	531.327	0.259	0.345	9.056	16.806	4.088
2022-09-11 15:30	6928209	8.339	-124.824	254.616	17.002	450.645	531.901	0.259	0.346	9.096	17.002	2.997
2022-09-11 15:45	6929109	8.365	-126.39	252.539	17.18	452.576	532.046	0.259	0.346	9.218	17.18	2.81
2022-09-11 16:00	6930009	8.368	-126.593	248.484	17.288	453.565	531.915	0.259	0.346	9.326	17.288	2.82
2022-09-11 16:15	6930909	8.398	-128.341	251.104	17.402	454.613	531.781	0.259	0.346	9.623	17.402	2.872
2022-09-11 16:30	6931809	8.411	-129.092	252.647	17.487	454.874	531.078	0.259	0.345	9.823	17.487	2.857
2022-09-11 16:45	6932709	8.418	-129.519	253.567	17.559	455.914	531.444	0.259	0.345	9.945	17.559	3.1
2022-09-11 17:00	6933609	8.421	-129.738	242.497	17.66	457.004	531.515	0.259	0.345	9.685	17.66	3.054
2022-09-11 17:15	6934509	8.446	-131.161	249.361	17.736	457.32	530.997	0.259	0.345	9.846	17.736	2.898
2022-09-11 17:30	6935409	8.452	-131.543	246.376	17.84	457.799	530.329	0.259	0.345	10.185	17.84	2.949
2022-09-11 17:45	6936309	8.462	-132.084	251.025	17.808	457.043	529.827	0.258	0.344	10.422	17.808	3.287
2022-09-11 18:00	6937209	8.459	-131.919	247.425	17.764	457.777	531.187	0.259	0.345	10.025	17.764	3.769
2022-09-11 18:15	6938109	8.468	-132.458	249.023	17.796	458.074	531.163	0.259	0.345	9.953	17.796	3.501
2022-09-11 18:30	6939009	8.482	-133.233	251.233	17.77	457.029	530.25	0.258	0.345	10.311	17.77	3.57
2022-09-11 18:45	6939909	8.494	-133.884	254.928	17.717	456.288	530.014	0.258	0.345	10.402	17.717	3.362
2022-09-11 19:00	6940809	8.478	-132.933	257.389	17.636	456.044	530.685	0.259	0.345	10.229	17.636	2.97
2022-09-11 19:15	6941709	8.440	-130.78	255.732	17.632	456.346	531.091	0.259	0.345	9.885	17.632	2.688
2022-09-11 19:30	6942609	8.409	-128.999	257.57	17.493	455.778	532.073	0.259	0.346	9.427	17.493	2.329
2022-09-11 19:45	6943509	8.388	-127.771	257.584	17.388	455.298	532.76	0.260	0.346	9.011	17.388	2.359
2022-09-11 20:00	6944409	8.353	-125.701	261.49	17.22	453.936	533.164	0.260	0.347	8.807	17.22	2.461
2022-09-11 20:15	6945309	8.359	-125.954	264.861	17.056	451.358	532.091	0.259	0.346	8.662	17.056	2.577
2022-09-11 20:30	6946209	8.354	-125.62	269.238	16.855	449.299	532.071	0.259	0.346	8.526	16.855	2.544
2022-09-11 20:45	6947109	8.356	-125.68	274.503	16.712	447.462	531.613	0.259	0.346	8.606	16.712	2.411
2022-09-11 21:00	6948009	8.335	-124.45	273.263	16.69	448.127	532.668	0.260	0.346	8.399	16.69	2.508
2022-09-11 21:15	6948909	8.324	-123.854	275.816	16.63	447.385	532.521	0.259	0.346	8.279	16.63	2.397
2022-09-11 21:30	6949809	8.332	-124.257	275.976	16.533	446.114	532.172	0.259	0.346	8.183	16.533	2.168
2022-09-11 21:45	6950709	8.347	-125.02	273.527	16.386	444.106	531.565	0.259	0.346	8.292	16.386	2.429
2022-09-11 22:00	6951609	8.333	-124.159	269.462	16.257	442.132	530.768	0.258	0.345	8.445	16.257	2.294
2022-09-11 22:15	6952509	8.347	-124.948	274.245	16.199	440.256	529.222	0.258	0.344	8.312	16.199	2.151
2022-09-11 22:30	6953409	8.330	-123.947	276.999	16.152	439.695	529.113	0.258	0.344	8.107	16.152	2.062
2022-09-11 22:45	6954309	8.337	-124.354	278.594	16.088	438.935	528.971	0.258	0.344	7.905	16.088	2.088

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-11 23:00	6955209	8.314	-123.053	275.387	16.066	440.342	530.942	0.259	0.345	7.780	16.066	2.307
2022-09-11 23:15	6956109	8.367	-125.968	279.6	16.02	439.886	530.956	0.259	0.345	7.505	16.02	2.166
2022-09-11 23:30	6957009	8.328	-123.77	278.346	15.939	439.239	531.161	0.259	0.345	7.636	15.939	2.128
2022-09-11 23:45	6957909	8.334	-124.061	278.005	15.877	438.299	530.79	0.258	0.345	7.482	15.877	2.122
2022-09-12 00:00	6958809	8.246	-119.121	276.064	15.73	436.287	530.149	0.258	0.345	7.642	15.73	2.006
2022-09-12 00:15	6959709	8.317	-123.017	276.746	15.646	434.26	528.718	0.257	0.344	7.711	15.646	2.217
2022-09-12 00:30	6960609	8.317	-123	277.499	15.542	433.897	529.56	0.258	0.344	7.710	15.542	2.126
2022-09-12 00:45	6961509	8.311	-122.638	279.025	15.473	433.538	529.97	0.258	0.344	7.759	15.473	2.246
2022-09-12 01:00	6962409	8.314	-122.752	275.921	15.402	433.467	530.764	0.258	0.345	7.693	15.402	2.464
2022-09-12 01:15	6963309	8.298	-121.846	279.695	15.36	433.378	531.177	0.258	0.345	7.665	15.36	2.308
2022-09-12 01:30	6964209	8.297	-121.734	279.965	15.281	432.636	531.258	0.259	0.345	7.438	15.281	2.197
2022-09-12 01:45	6965109	8.287	-121.14	279.717	15.21	432.065	531.443	0.259	0.345	7.342	15.21	2.259
2022-09-12 02:00	6966009	8.243	-118.692	275.42	15.124	431.056	531.267	0.258	0.345	7.363	15.124	2.197
2022-09-12 02:15	6966909	8.301	-121.88	278.002	14.998	429.294	530.674	0.258	0.345	7.389	14.998	2.162
2022-09-12 02:30	6967809	8.282	-120.766	280.012	14.935	428.564	530.557	0.258	0.345	7.418	14.935	2.126
2022-09-12 02:45	6968709	8.289	-121.171	282.184	14.91	428.35	530.613	0.258	0.345	7.309	14.91	2.057
2022-09-12 03:00	6969609	8.273	-120.261	279.91	14.841	428.182	531.262	0.258	0.345	7.215	14.841	2.144
2022-09-12 03:15	6970509	8.293	-121.343	281.1	14.807	427.874	531.312	0.258	0.345	7.113	14.807	2.097
2022-09-12 03:30	6971409	8.293	-121.286	279.583	14.736	427.072	531.214	0.258	0.345	7.061	14.736	2.065
2022-09-12 03:45	6972309	8.310	-122.218	278.188	14.648	426.18	531.212	0.258	0.345	7.019	14.648	2.021
2022-09-12 04:00	6973209	8.254	-119.071	276.317	14.573	425.719	531.586	0.258	0.346	7.038	14.573	2.211
2022-09-12 04:15	6974109	8.248	-118.709	279.912	14.49	424.322	530.891	0.258	0.345	6.936	14.49	1.968
2022-09-12 04:30	6975009	8.245	-118.496	282.184	14.359	423.114	531.04	0.258	0.345	6.671	14.359	2.081
2022-09-12 04:45	6975909	8.249	-118.647	284.595	14.293	422.269	530.826	0.258	0.345	6.569	14.293	1.962
2022-09-12 05:00	6976809	8.242	-118.263	281.722	14.213	421.927	531.417	0.258	0.345	***6.445***	14.213	2.81
2022-09-12 05:15	6977709	8.247	-118.506	284.869	14.149	421.268	531.403	0.258	0.345	6.672	14.149	2.209
2022-09-12 05:30	6978609	8.253	-118.768	286.073	14.04	420.068	531.284	0.258	0.345	***6.481***	14.04	2.261
2022-09-12 05:45	6979509	8.254	-118.811	284.607	14.008	419.671	531.198	0.258	0.345	6.738	14.008	2.237
2022-09-12 06:00	6980409	8.267	-119.543	282.039	13.933	418.694	530.921	0.258	0.345	6.847	13.933	2.311
2022-09-12 06:15	6981309	8.267	-119.519	284.557	13.863	417.531	530.339	0.258	0.345	6.813	13.863	2.231
2022-09-12 06:30	6982209	8.277	-120.006	288.474	13.815	416.917	530.178	0.258	0.345	7.099	13.815	2.503
2022-09-12 06:45	6983109	8.253	-118.711	288.512	13.825	416.998	530.152	0.258	0.345	7.366	13.825	2.296
2022-09-12 07:00	6984009	8.300	-121.293	283.801	13.738	416.151	530.192	0.258	0.345	7.538	13.738	2.681
2022-09-12 07:15	6984909	8.311	-121.889	290.007	13.715	415.895	530.165	0.258	0.345	7.438	13.715	2.546
2022-09-12 07:30	6985809	8.284	-120.385	286.18	13.731	416.224	530.384	0.258	0.345	7.643	13.731	2.055
2022-09-12 07:45	6986709	8.281	-120.211	286.242	13.706	415.677	530.01	0.257	0.345	7.169	13.706	2.305
2022-09-12 08:00	6987609	8.300	-121.217	281.684	13.651	415.21	530.124	0.257	0.345	7.454	13.651	2.373
2022-09-12 08:15	6988509	8.303	-121.379	282.904	13.62	414.829	530.031	0.257	0.345	7.566	13.62	2.538
2022-09-12 08:30	6989409	8.295	-120.907	285.081	13.595	414.525	529.966	0.257	0.344	7.481	13.595	2.186
2022-09-12 08:45	6990309	8.315	-122.004	287.854	13.559	414.175	529.994	0.257	0.344	7.424	13.559	2.338
2022-09-12 09:00	6991209	8.299	-121.095	282.368	13.522	413.706	529.874	0.257	0.344	7.573	13.522	2.66
2022-09-12 09:15	6992109	8.323	-122.447	284.628	13.494	413.91	530.488	0.258	0.345	7.694	13.494	2.425
2022-09-12 09:30	6993009	8.318	-122.149	284.061	13.51	413.832	530.182	0.257	0.345	7.866	13.51	2.045
2022-09-12 09:45	6993909	8.287	-120.468	282.718	13.526	414.196	530.443	0.258	0.345	7.639	13.526	1.929
2022-09-12 10:00	6994809	8.245	-118.122	281.576	13.532	414.565	530.84	0.258	0.345	7.660	13.532	2.084
2022-09-12 10:15	6995709	8.245	-118.122	283.629	13.534	414.408	530.606	0.258	0.345	7.161	13.534	2.59
2022-09-12 10:30	6996609	8.232	-117.409	285.403	13.553	414.748	530.803	0.258	0.345	7.185	13.553	2.089
2022-09-12 10:45	6997509	8.284	-120.289	287.213	13.562	414.47	530.334	0.258	0.345	7.546	13.562	2.743

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-12 11:00	6998409	8.281	-120.132	281.252	13.544	414.045	530.021	0.257	0.345	7.358	13.544	2.352
2022-09-12 11:15	6999309	8.318	-122.156	283.558	13.525	413.86	530.023	0.257	0.345	7.569	13.525	2.438
2022-09-12 11:30	7000209	8.326	-122.592	284.814	13.505	413.318	529.591	0.257	0.344	7.886	13.505	2.595
2022-09-12 11:45	7001109	8.342	-123.529	278.756	13.517	413.541	529.724	0.257	0.344	8.122	13.517	2.484
2022-09-12 12:00	7002009	8.296	-120.976	276.994	13.527	413.696	529.786	0.257	0.344	8.030	13.527	2.208
2022-09-12 12:15	7002909	8.362	-124.648	280.148	13.599	414.557	529.958	0.257	0.344	7.949	13.599	2.225
2022-09-12 12:30	7003809	8.259	-118.98	283.393	13.646	415.259	530.251	0.258	0.345	7.687	13.646	2.565
2022-09-12 12:45	7004709	8.323	-122.542	281.2	13.713	415.864	530.158	0.258	0.345	7.689	13.713	2.164
2022-09-12 13:00	7005609	8.348	-123.92	274.178	13.771	416.283	529.944	0.257	0.344	7.678	13.771	2.401
2022-09-12 13:15	7006509	8.315	-122.159	277.564	13.842	416.802	529.691	0.257	0.344	7.967	13.842	2.488
2022-09-12 13:30	7007409	8.366	-125.034	275.907	13.945	417.759	529.575	0.257	0.344	8.381	13.945	2.764
2022-09-12 13:45	7008309	8.320	-122.526	274.562	14.106	418.997	529.083	0.257	0.344	8.689	14.106	2.636
2022-09-12 14:00	7009209	8.349	-124.209	270.356	14.219	420.394	529.405	0.257	0.344	8.849	14.219	2.991
2022-09-12 14:15	7010109	8.376	-125.751	272.85	14.309	421.298	529.403	0.257	0.344	8.885	14.309	3.359
2022-09-12 14:30	7011009	8.400	-127.108	274.476	14.373	422.005	529.475	0.257	0.344	8.883	14.373	2.788
2022-09-12 14:45	7011909	8.387	-126.388	276.906	14.452	422.78	529.448	0.257	0.344	8.954	14.452	2.568
2022-09-12 15:00	7012809	8.378	-125.93	275.323	14.516	423.522	529.564	0.257	0.344	8.680	14.516	2.681
2022-09-12 15:15	7013709	8.350	-124.402	279.957	14.621	424.365	529.292	0.257	0.344	8.622	14.621	2.445
2022-09-12 15:30	7014609	8.354	-124.695	279.519	14.74	425.44	529.134	0.257	0.344	8.756	14.74	2.653
2022-09-12 15:45	7015509	8.356	-124.829	276.634	14.838	426.135	528.763	0.257	0.344	8.956	14.838	2.478
2022-09-12 16:00	7016409	8.352	-124.643	273.229	14.928	427.162	528.906	0.257	0.344	8.979	14.928	2.48
2022-09-12 16:15	7017309	8.370	-125.69	274.994	14.973	427.01	528.163	0.257	0.343	8.930	14.973	2.693
2022-09-12 16:30	7018209	8.403	-127.544	276.791	15.017	427.053	527.663	0.257	0.343	9.050	15.017	2.522
2022-09-12 16:45	7019109	8.396	-127.17	277.588	15.016	427.656	528.426	0.257	0.343	9.225	15.016	2.516
2022-09-12 17:00	7020009	8.406	-127.718	276.279	15.052	428.433	528.932	0.257	0.344	9.242	15.052	2.492
2022-09-12 17:15	7020909	8.415	-128.238	278.56	15.073	428.644	528.928	0.257	0.344	9.130	15.073	2.335
2022-09-12 17:30	7021809	8.406	-127.749	278.112	15.058	428.526	528.979	0.257	0.344	9.280	15.058	2.541
2022-09-12 17:45	7022709	8.391	-126.863	277.545	15.024	428.623	529.524	0.258	0.344	9.109	15.024	2.352
2022-09-12 18:00	7023609	8.379	-126.176	272.385	14.96	428.021	529.574	0.258	0.344	8.817	14.96	3.253
2022-09-12 18:15	7024509	8.392	-126.898	275.649	14.922	427.831	529.81	0.258	0.344	8.710	14.922	3.391
2022-09-12 18:30	7025409	8.383	-126.39	278.267	14.88	427.444	529.861	0.258	0.344	8.586	14.88	3.588
2022-09-12 18:45	7026309	8.388	-126.646	280.132	14.846	427.17	529.949	0.258	0.344	8.552	14.846	3.488
2022-09-12 19:00	7027209	8.382	-126.305	279.476	14.8	426.484	529.676	0.258	0.344	8.511	14.8	2.229
2022-09-12 19:15	7028109	8.399	-127.208	283.097	14.762	426.159	529.743	0.258	0.344	8.634	14.762	2.054
2022-09-12 19:30	7029009	8.386	-126.45	281.686	14.732	425.788	529.659	0.258	0.344	8.611	14.732	2.065
2022-09-12 19:45	7029909	8.397	-127.051	280.737	14.71	425.485	529.561	0.258	0.344	8.600	14.71	2
2022-09-12 20:00	7030809	8.352	-124.555	279.059	14.695	425.312	529.537	0.257	0.344	8.545	14.695	1.999
2022-09-12 20:15	7031709	8.374	-125.797	282.654	14.69	424.83	528.996	0.257	0.344	8.452	14.69	1.96
2022-09-12 20:30	7032609	8.329	-123.272	284.33	14.695	425.509	529.782	0.258	0.344	8.281	14.695	1.953
2022-09-12 20:45	7033509	8.312	-122.364	284.95	14.704	425.6	529.781	0.258	0.344	8.182	14.704	1.875
2022-09-12 21:00	7034409	8.309	-122.161	283.605	14.715	425.695	529.769	0.258	0.344	8.074	14.715	1.926
2022-09-12 21:15	7035309	8.293	-121.286	285.603	14.734	425.982	529.879	0.258	0.344	8.108	14.734	1.918
2022-09-12 21:30	7036209	8.265	-119.739	283.956	14.747	426.252	530.049	0.258	0.345	8.004	14.747	1.858
2022-09-12 21:45	7037109	8.265	-119.746	282.139	14.76	426.438	530.122	0.258	0.345	7.797	14.76	1.963
2022-09-12 22:00	7038009	8.234	-118.01	279.931	14.765	427.145	530.935	0.258	0.345	7.719	14.765	1.845
2022-09-12 22:15	7038909	8.264	-119.693	282.566	14.765	427.634	531.546	0.259	0.346	7.600	14.765	1.782
2022-09-12 22:30	7039809	8.264	-119.712	284.132	14.756	426.831	530.656	0.258	0.345	7.513	14.756	1.831
2022-09-12 22:45	7040709	8.311	-122.309	283.505	14.734	426.025	529.941	0.258	0.344	7.443	14.734	1.769

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-12 23:00	7041609	8.328	-123.26	280.065	14.707	425.823	530.029	0.258	0.345	7.589	14.707	1.987
2022-09-12 23:15	7042509	8.377	-125.926	279.931	14.666	425.356	529.959	0.258	0.344	7.845	14.666	1.917
2022-09-12 23:30	7043409	8.370	-125.539	279.214	14.633	425.074	530.022	0.258	0.345	7.710	14.633	2.19
2022-09-12 23:45	7044309	8.351	-124.459	277.24	14.572	424.055	529.521	0.257	0.344	7.874	14.572	2.099
2022-09-13 00:00	7045209	8.307	-122.011	272.817	14.542	423.747	529.516	0.257	0.344	8.011	14.542	3.009
2022-09-13 00:15	7046109	8.371	-125.537	276.229	14.497	423.311	529.54	0.257	0.344	8.029	14.497	3.319
2022-09-13 00:30	7047009	8.371	-125.546	278.718	14.472	422.688	529.081	0.257	0.344	8.035	14.472	3.003
2022-09-13 00:45	7047909	8.384	-126.197	279.803	14.394	421.765	528.913	0.257	0.344	8.246	14.394	3.117
2022-09-13 01:00	7048809	8.355	-124.583	279.354	14.367	422.039	529.596	0.257	0.344	8.361	14.367	2.121
2022-09-13 01:15	7049709	8.344	-123.94	284.416	14.328	422.609	530.804	0.258	0.345	7.445	14.328	1.939
2022-09-13 01:30	7050610	8.324	-122.824	279.307	14.273	421.556	530.18	0.258	0.345	7.006	14.273	1.883
2022-09-13 01:45	7051510	8.311	-122.092	282.418	14.244	421.697	530.727	0.258	0.345	7.116	14.244	1.854
2022-09-13 02:00	7052410	8.288	-120.809	278.82	14.179	420.763	530.386	0.258	0.345	7.076	14.179	1.78
2022-09-13 02:15	7053310	8.288	-120.761	282.561	14.134	419.558	529.434	0.257	0.344	7.217	14.134	1.706
2022-09-13 02:30	7054210	8.279	-120.242	285.038	14.075	418.793	529.226	0.257	0.344	7.193	14.075	1.659
2022-09-13 02:45	7055110	8.297	-121.21	285.799	14.027	418.303	529.216	0.257	0.344	7.431	14.027	1.81
2022-09-13 03:00	7056010	8.286	-120.573	281.045	13.993	418.35	529.708	0.257	0.344	7.453	13.993	2.708
2022-09-13 03:15	7056910	8.292	-120.926	282.923	13.928	417.77	529.814	0.257	0.344	7.301	13.928	1.979
2022-09-13 03:30	7057810	8.310	-121.872	282.68	13.852	416.917	529.699	0.257	0.344	7.461	13.852	2.561
2022-09-13 03:45	7058710	8.307	-121.703	282.227	13.783	416.108	529.569	0.257	0.344	7.604	13.783	2.098
2022-09-13 04:00	7059610	8.286	-120.502	277.299	13.741	415.871	529.8	0.257	0.344	7.580	13.741	2.029
2022-09-13 04:15	7060510	8.299	-121.191	281.164	13.672	414.745	529.258	0.257	0.344	7.474	13.672	2.016
2022-09-13 04:30	7061410	8.303	-121.362	283.248	13.627	414.607	529.662	0.257	0.344	7.579	13.627	2.306
2022-09-13 04:45	7062310	8.294	-120.862	285.351	13.588	414.47	529.992	0.257	0.344	7.245	13.588	2.292
2022-09-13 05:00	7063210	8.275	-119.796	282.227	13.528	413.863	529.998	0.257	0.344	7.307	13.528	2.768
2022-09-13 05:15	7064110	8.255	-118.69	285.677	13.512	413.57	529.82	0.257	0.344	7.552	13.512	2.81
2022-09-13 05:30	7065010	8.289	-120.578	283.612	13.495	413.4	529.831	0.257	0.344	7.823	13.495	3.558
2022-09-13 05:45	7065910	8.317	-122.108	283.474	13.482	413.21	529.754	0.257	0.344	7.721	13.482	3.534
2022-09-13 06:00	7066810	8.313	-121.868	278.944	13.447	413.258	530.273	0.257	0.345	7.595	13.447	2.603
2022-09-13 06:15	7067710	8.317	-122.089	283.245	13.439	413.229	530.34	0.258	0.345	7.713	13.439	3.13
2022-09-13 06:30	7068610	8.296	-120.943	284.044	13.426	413.1	530.344	0.258	0.345	7.862	13.426	2.876
2022-09-13 06:45	7069510	8.325	-122.519	284.757	13.389	412.525	530.078	0.257	0.345	7.949	13.389	2.68
2022-09-13 07:00	7070410	8.309	-121.613	283.992	13.365	412.349	530.169	0.257	0.345	7.841	13.365	5.501
2022-09-13 07:15	7071310	8.301	-121.14	286.783	13.361	412.339	530.207	0.257	0.345	7.654	13.361	2.464
2022-09-13 07:30	7072210	8.278	-119.901	285.882	13.342	412.054	530.085	0.257	0.345	7.569	13.342	2.786
2022-09-13 07:45	7073110	8.280	-119.972	284.058	13.317	412.017	530.371	0.257	0.345	7.558	13.317	2.429
2022-09-13 08:00	7074010	8.278	-119.853	283.624	13.281	411.881	530.656	0.258	0.345	7.466	13.281	2.675
2022-09-13 08:15	7074910	8.273	-119.569	285.575	13.281	412.071	530.903	0.258	0.345	7.429	13.281	2.261
2022-09-13 08:30	7075810	8.267	-119.219	288.209	13.252	411.518	530.576	0.258	0.345	7.404	13.252	2.049
2022-09-13 08:45	7076710	8.292	-120.592	288.536	13.221	411.138	530.492	0.258	0.345	7.674	13.221	2.417
2022-09-13 09:00	7077610	8.278	-119.841	285.861	13.21	410.944	530.383	0.257	0.345	7.644	13.21	2.46
2022-09-13 09:15	7078510	8.274	-119.586	287.434	13.221	410.963	530.259	0.257	0.345	7.450	13.221	2.506
2022-09-13 09:30	7079410	8.281	-119.975	286.311	13.205	410.715	530.143	0.257	0.345	7.757	13.205	2.196
2022-09-13 09:45	7080310	8.300	-121.071	283.705	13.206	410.967	530.466	0.257	0.345	7.730	13.206	2.241
2022-09-13 10:00	7081210	8.273	-119.56	281.359	13.206	411.088	530.619	0.258	0.345	7.804	13.206	2.036
2022-09-13 10:15	7082110	8.281	-119.975	282.151	13.199	411.013	530.607	0.258	0.345	7.493	13.199	2.291
2022-09-13 10:30	7083010	8.273	-119.56	281.34	13.201	411.121	530.721	0.258	0.345	7.694	13.201	2.174
2022-09-13 10:45	7083910	8.256	-118.632	281.119	13.197	410.972	530.593	0.258	0.345	7.621	13.197	2.322

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-13 11:00	7084810	8.299	-120.978	278.186	13.175	410.267	529.962	0.257	0.344	7.883	13.175	2.805
2022-09-13 11:15	7085710	8.305	-121.338	280.475	13.188	410.269	529.8	0.257	0.344	8.115	13.188	2.378
2022-09-13 11:30	7086610	8.288	-120.399	278.87	13.196	410.563	530.069	0.257	0.345	7.930	13.196	2.102
2022-09-13 11:45	7087510	8.295	-120.74	278.317	13.206	410.851	530.314	0.257	0.345	7.842	13.206	2.152
2022-09-13 12:00	7088410	8.264	-119.061	278.339	13.218	411.249	530.668	0.258	0.345	7.800	13.218	1.955
2022-09-13 12:15	7089310	8.248	-118.191	280.415	13.241	411.866	531.163	0.258	0.345	7.407	13.241	1.776
2022-09-13 12:30	7090210	8.231	-117.252	281.81	13.271	412.459	531.538	0.258	0.345	7.088	13.271	2.343
2022-09-13 12:45	7091110	8.212	-116.217	284.678	13.316	412.88	531.487	0.258	0.345	7.118	13.316	2.013
2022-09-13 13:00	7092010	8.243	-117.948	278.227	13.398	413.221	530.854	0.258	0.345	7.103	13.398	1.969
2022-09-13 13:15	7092910	8.245	-118.158	281.903	13.537	414.426	530.592	0.258	0.345	7.280	13.537	2.028
2022-09-13 13:30	7093810	8.257	-118.871	279.781	13.701	416.063	530.558	0.258	0.345	7.426	13.701	2.312
2022-09-13 13:45	7094710	8.269	-119.596	278.446	13.875	417.848	530.597	0.258	0.345	7.753	13.875	2.227
2022-09-13 14:00	7095610	8.303	-121.539	272.795	14.007	419.199	530.61	0.258	0.345	8.036	14.007	2.533
2022-09-13 14:15	7096510	8.317	-122.375	274.278	14.176	421.001	530.722	0.258	0.345	8.290	14.176	3.203
2022-09-13 14:30	7097410	8.321	-122.702	275.437	14.316	422.31	530.587	0.258	0.345	8.381	14.316	3.074
2022-09-13 14:45	7098310	8.339	-123.78	274.471	14.535	424.019	529.941	0.258	0.344	8.823	14.535	2.701
2022-09-13 15:00	7099210	8.374	-125.797	271.224	14.7	424.754	528.782	0.257	0.344	9.111	14.7	2.729
2022-09-13 15:15	7100110	8.394	-126.994	269.15	14.91	425.276	526.799	0.256	0.342	9.830	14.91	2.646
2022-09-13 15:30	7101010	8.444	-129.819	266.947	15.055	425.892	525.756	0.256	0.342	10.955	15.055	2.598
2022-09-13 15:45	7101910	8.434	-129.306	266.232	15.141	425.98	524.811	0.255	0.341	10.711	15.141	2.653
2022-09-13 16:00	7102810	8.466	-131.145	263.535	15.235	426.725	524.562	0.255	0.341	11.564	15.235	2.488
2022-09-13 16:15	7103710	8.395	-127.702	260.61	16.389	442.748	529.901	0.258	0.344	10.650	16.389	2.883
2022-09-13 16:30	7104610	8.412	-129.082	250.158	17.319	456.101	534.522	0.261	0.347	9.520	17.319	3.369
2022-09-13 16:45	7105510	8.400	-128.591	235.879	17.704	462.211	537.05	0.262	0.349	9.412	17.704	3.15
2022-09-13 17:00	7106410	8.391	-128.157	238.401	17.951	466.66	539.26	0.263	0.351	9.388	17.951	4.045
2022-09-13 17:15	7107310	8.412	-129.414	242.385	18.056	467.855	539.394	0.263	0.351	9.496	18.056	3.92
2022-09-13 17:30	7108210	8.409	-129.204	247.797	18.048	467.722	539.337	0.263	0.351	9.585	18.048	3.997
2022-09-13 17:45	7109110	8.436	-130.737	248.541	18.021	466.993	538.813	0.263	0.350	9.680	18.021	4.245
2022-09-13 18:00	7110010	8.413	-129.454	243.67	17.994	466.402	538.458	0.263	0.350	10.049	17.994	2.857
2022-09-13 18:15	7110910	8.393	-128.119	251.219	17.595	460.063	535.852	0.261	0.348	9.562	17.595	2.814
2022-09-13 18:30	7111810	8.376	-126.889	259.756	17.015	454.265	536.02	0.261	0.348	9.257	17.015	3.055
2022-09-13 18:45	7112710	8.365	-126.138	264.489	16.632	450.389	536.064	0.261	0.348	9.193	16.632	2.985
2022-09-13 19:00	7113610	8.364	-125.997	262.298	16.512	450.475	537.641	0.262	0.349	9.103	16.512	2.924
2022-09-13 19:15	7114510	8.339	-124.557	269.303	16.379	449.029	537.537	0.262	0.349	8.894	16.379	2.836
2022-09-13 19:30	7115410	8.333	-124.19	269.782	16.256	447.49	537.214	0.262	0.349	8.711	16.256	2.609
2022-09-13 19:45	7116310	8.337	-124.335	270.881	16.05	444.756	536.459	0.261	0.349	8.648	16.05	2.721
2022-09-13 20:00	7117210	8.343	-124.576	262.76	15.857	442.176	535.732	0.261	0.348	8.730	15.857	2.968
2022-09-13 20:15	7118110	8.345	-124.598	270.874	15.699	438.752	533.534	0.260	0.347	8.695	15.699	2.513
2022-09-13 20:30	7119010	8.336	-124.068	274.226	15.606	439.035	535.034	0.260	0.348	8.693	15.606	2.487
2022-09-13 20:45	7119910	8.331	-123.763	274.662	15.537	438.23	534.914	0.260	0.348	8.599	15.537	2.397
2022-09-13 21:00	7120810	8.337	-124.078	273.742	15.508	438.692	535.84	0.261	0.348	8.533	15.508	2.41
2022-09-13 21:15	7121710	8.329	-123.596	277.201	15.481	438.585	536.043	0.261	0.348	8.329	15.481	2.072
2022-09-13 21:30	7122610	8.313	-122.724	276.67	15.426	437.907	535.905	0.261	0.348	8.152	15.426	2.229
2022-09-13 21:45	7123510	8.311	-122.597	275.454	15.397	437.413	535.664	0.261	0.348	8.068	15.397	2.036
2022-09-13 22:00	7124410	8.265	-120.001	276.965	15.356	437.726	536.561	0.261	0.349	7.895	15.356	3.023
2022-09-13 22:15	7125310	8.248	-119.03	280.239	15.353	437.799	536.693	0.261	0.349	7.726	15.353	3.044
2022-09-13 22:30	7126210	8.227	-117.857	281.719	15.334	437.854	536.997	0.261	0.349	7.575	15.334	2.932
2022-09-13 22:45	7127110	8.240	-118.58	281.243	15.32	437.394	536.603	0.261	0.349	7.432	15.32	3.055

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-13 23:00	7128010	8.307	-122.337	277.397	15.291	436.892	536.35	0.261	0.349	7.490	15.291	2.122
2022-09-13 23:15	7128910	8.292	-121.467	277.364	15.262	437.159	537.049	0.261	0.349	7.511	15.262	2.21
2022-09-13 23:30	7129810	8.328	-123.439	277.051	15.232	436.808	536.995	0.261	0.349	7.579	15.232	1.964
2022-09-13 23:45	7130710	8.311	-122.468	276.653	15.189	436.616	537.295	0.262	0.349	7.532	15.189	1.867
2022-09-14 00:00	7131610	8.229	-117.884	275.296	15.115	435.298	536.608	0.261	0.349	7.442	15.115	2.937
2022-09-14 00:15	7132510	8.293	-121.439	277.44	15.07	434.747	536.498	0.261	0.349	7.480	15.07	3.415
2022-09-14 00:30	7133410	8.269	-120.044	280.723	14.973	433.188	535.797	0.261	0.348	7.608	14.973	3.056
2022-09-14 00:45	7134310	8.291	-121.264	279.996	14.924	432.3	535.319	0.260	0.348	7.583	14.924	3.369
2022-09-14 01:00	7135210	8.281	-120.654	281.71	14.832	432.057	536.185	0.261	0.349	7.646	14.832	1.996
2022-09-14 01:15	7136110	8.286	-120.947	282.547	14.808	431.849	536.242	0.261	0.349	7.373	14.808	2.14
2022-09-14 01:30	7137010	8.290	-121.126	281.674	14.733	431.552	536.818	0.261	0.349	7.171	14.733	2.11
2022-09-14 01:45	7137910	8.279	-120.471	279.29	14.664	430.773	536.73	0.261	0.349	7.209	14.664	1.989
2022-09-14 02:00	7138810	8.254	-119.05	279.018	14.563	429.429	536.352	0.261	0.349	7.308	14.563	2.283
2022-09-14 02:15	7139710	8.274	-120.125	280.194	14.478	427.936	535.575	0.260	0.348	7.448	14.478	2.193
2022-09-14 02:30	7140610	8.283	-120.618	280.997	14.46	427.761	535.586	0.260	0.348	7.391	14.46	1.91
2022-09-14 02:45	7141510	8.261	-119.362	282.556	14.36	426.77	535.621	0.260	0.348	7.307	14.36	2.04
2022-09-14 03:00	7142410	8.264	-119.531	280.592	14.335	426.978	536.205	0.261	0.349	7.340	14.335	1.999
2022-09-14 03:15	7143310	8.290	-120.938	283.117	14.267	426.515	536.501	0.261	0.349	7.115	14.267	1.857
2022-09-14 03:30	7144210	8.281	-120.399	280.401	14.193	425.66	536.379	0.261	0.349	7.072	14.193	2.272
2022-09-14 03:45	7145110	8.269	-119.724	280.914	14.162	425.075	536.036	0.261	0.348	7.187	14.162	2.111
2022-09-14 04:00	7146010	8.239	-118.039	277.58	14.089	424.341	536.051	0.261	0.348	7.121	14.089	1.919
2022-09-14 04:15	7146910	8.265	-119.476	280.596	14.055	423.687	535.668	0.260	0.348	7.142	14.055	1.763
2022-09-14 04:30	7147810	8.259	-119.097	282.43	13.975	422.537	535.247	0.260	0.348	6.992	13.975	1.852
2022-09-14 04:45	7148710	8.263	-119.319	282.864	13.927	422.358	535.648	0.260	0.348	7.134	13.927	1.814
2022-09-14 05:00	7149610	8.239	-117.958	282.449	13.886	422.254	536.04	0.261	0.348	7.038	13.886	2.107
2022-09-14 05:15	7150510	8.234	-117.65	284.864	13.78	421.49	536.452	0.261	0.349	6.750	13.78	1.924
2022-09-14 05:30	7151410	8.237	-117.75	283.782	13.726	420.825	536.305	0.261	0.349	6.817	13.726	2.308
2022-09-14 05:45	7152310	8.235	-117.614	283.646	13.611	419.499	536.119	0.260	0.348	6.760	13.611	2.265
2022-09-14 06:00	7153210	8.241	-117.886	280.439	13.525	418.38	535.813	0.260	0.348	6.947	13.525	2.164
2022-09-14 06:15	7154110	8.241	-117.877	282.699	13.425	416.531	534.759	0.260	0.348	6.987	13.425	2.287
2022-09-14 06:30	7155010	8.247	-118.203	283.45	13.375	416.131	534.895	0.260	0.348	7.192	13.375	2.302
2022-09-14 06:45	7155910	8.252	-118.477	285.668	13.364	415.934	534.795	0.260	0.348	7.158	13.364	2.348
2022-09-14 07:00	7156810	8.256	-118.654	284.719	13.308	415.522	534.993	0.260	0.348	7.185	13.308	2.507
2022-09-14 07:15	7157710	8.247	-118.129	286.688	13.311	415.414	534.821	0.260	0.348	7.098	13.311	2.44
2022-09-14 07:30	7158610	8.242	-117.886	285.193	13.275	414.926	534.664	0.260	0.348	6.981	13.275	2.473
2022-09-14 07:45	7159510	8.261	-118.866	284.576	13.209	414.144	534.527	0.260	0.347	7.108	13.209	2.125
2022-09-14 08:00	7160410	8.266	-119.166	280.458	13.168	413.745	534.552	0.260	0.347	7.077	13.168	2.275
2022-09-14 08:15	7161310	8.276	-119.667	282.194	13.103	412.457	533.741	0.259	0.347	7.167	13.103	2.34
2022-09-14 08:30	7162210	8.275	-119.598	283.384	13.102	412.686	534.054	0.259	0.347	7.528	13.102	2.117
2022-09-14 08:45	7163110	8.284	-120.084	285.508	13.078	412.19	533.73	0.259	0.347	7.542	13.078	2.558
2022-09-14 09:00	7164010	8.283	-120.041	280.632	13.069	412.435	534.161	0.259	0.347	7.624	13.069	2.154
2022-09-14 09:15	7164910	8.280	-119.882	284.523	13.074	412.585	534.289	0.259	0.347	7.312	13.074	2.12
2022-09-14 09:30	7165810	8.258	-118.635	283.117	13.049	412.403	534.386	0.259	0.347	7.121	13.049	2.044
2022-09-14 09:45	7166710	8.286	-120.227	283.219	13.044	412.325	534.353	0.259	0.347	7.146	13.044	1.817
2022-09-14 10:00	7167610	8.269	-119.269	279.097	13.025	412.03	534.224	0.259	0.347	7.224	13.025	1.824
2022-09-14 10:15	7168510	8.281	-119.913	282.399	13.028	411.853	533.95	0.259	0.347	6.997	13.028	1.964
2022-09-14 10:30	7169410	8.227	-116.949	284.816	13.051	412.992	535.117	0.260	0.348	6.857	13.051	1.767
2022-09-14 10:45	7170310	8.256	-118.532	286.655	13.046	412.208	534.168	0.259	0.347	6.588	13.046	1.67

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-14 11:00	7171210	8.253	-118.346	284.013	13.029	412.355	534.581	0.259	0.347	6.710	13.029	1.814
2022-09-14 11:15	7172110	8.298	-120.842	283.925	13.047	412.462	534.488	0.259	0.347	7.174	13.047	1.752
2022-09-14 11:30	7173010	8.314	-121.775	282.172	13.055	412.558	534.505	0.259	0.347	7.424	13.055	1.718
2022-09-14 11:45	7173910	8.249	-118.167	281.827	13.075	413.143	535.003	0.260	0.348	7.127	13.075	1.522
2022-09-14 12:00	7174810	8.193	-115.051	279.261	13.09	413.698	535.518	0.260	0.348	6.634	13.09	1.503
2022-09-14 12:15	7175710	8.188	-114.794	282.084	13.105	413.535	535.107	0.260	0.348	***6.332***	13.105	1.653
2022-09-14 12:30	7176610	8.178	-114.262	283.951	13.132	414.294	535.731	0.260	0.348	6.540	13.132	2.103
2022-09-14 12:45	7177510	8.155	-112.991	285.16	13.174	414.85	535.898	0.260	0.348	***6.264***	13.174	1.57
2022-09-14 13:00	7178410	8.168	-113.742	283.927	13.228	414.902	535.248	0.260	0.348	***6.202***	13.228	1.877
2022-09-14 13:15	7179310	8.168	-113.797	285.32	13.314	415.236	534.549	0.260	0.347	6.632	13.314	1.878
2022-09-14 13:30	7180210	8.174	-114.143	283.822	13.406	416.076	534.42	0.260	0.347	6.652	13.406	1.651
2022-09-14 13:45	7181110	8.187	-114.913	282.308	13.545	416.639	533.323	0.259	0.347	6.906	13.545	1.856
2022-09-14 14:00	7182010	8.223	-116.942	278.765	13.643	418.033	533.826	0.259	0.347	7.425	13.643	1.799
2022-09-14 14:15	7182910	8.242	-118.067	281.183	13.75	418.981	533.651	0.259	0.347	7.777	13.75	2.42
2022-09-14 14:30	7183810	8.271	-119.731	280.999	13.847	420.012	533.698	0.259	0.347	7.680	13.847	2.046
2022-09-14 14:45	7184710	8.265	-119.424	280.048	13.967	421.029	533.437	0.259	0.347	7.837	13.967	2.12
2022-09-14 15:00	7185610	8.328	-122.983	277.366	14.119	421.693	532.331	0.259	0.346	8.583	14.119	2.262
2022-09-14 15:15	7186510	8.337	-123.587	277.945	14.293	422.944	531.676	0.258	0.346	8.720	14.293	2.306
2022-09-14 15:30	7187410	8.355	-124.609	276.107	14.392	423.732	531.405	0.258	0.345	9.098	14.392	2.12
2022-09-14 15:45	7188310	8.368	-125.365	275.294	14.428	424.723	532.179	0.259	0.346	9.070	14.428	2.449
2022-09-14 16:00	7189210	8.367	-125.282	272.526	14.421	424.204	531.628	0.258	0.346	9.111	14.421	2.324
2022-09-14 16:15	7190110	8.380	-125.973	275.525	14.406	423.749	531.242	0.258	0.345	9.202	14.406	1.965
2022-09-14 16:30	7191010	8.391	-126.615	274.846	14.422	423.624	530.885	0.258	0.345	9.239	14.422	2.765
2022-09-14 16:45	7191910	8.395	-126.846	275.926	14.437	423.784	530.892	0.258	0.345	9.210	14.437	2.575
2022-09-14 17:00	7192810	8.409	-127.666	274.691	14.474	424.205	530.953	0.258	0.345	9.375	14.474	2.383
2022-09-14 17:15	7193710	8.382	-126.143	275.654	14.479	424.533	531.297	0.258	0.345	9.499	14.479	2.267
2022-09-14 17:30	7194610	8.400	-127.127	276.872	14.467	424.417	531.304	0.258	0.345	9.598	14.467	2.312
2022-09-14 17:45	7195510	8.397	-126.934	276.312	14.448	424.284	531.377	0.258	0.345	9.624	14.448	2.354
2022-09-14 18:00	7196410	8.401	-127.168	272.04	14.431	423.991	531.235	0.258	0.345	9.564	14.431	2.473
2022-09-14 18:15	7197310	8.402	-127.218	275.456	14.396	423.51	531.075	0.258	0.345	9.593	14.396	2.594
2022-09-14 18:30	7198210	8.401	-127.17	277.399	14.359	423.605	531.656	0.258	0.346	9.350	14.359	2.184
2022-09-14 18:45	7199110	8.397	-126.874	278.627	14.315	422.799	531.207	0.258	0.345	9.272	14.315	2.126
2022-09-14 19:00	7200010	8.406	-127.389	277.49	14.285	422.783	531.573	0.258	0.346	9.147	14.285	2.303
2022-09-14 19:15	7200910	8.392	-126.576	278.694	14.263	423.041	532.174	0.259	0.346	9.000	14.263	2.203
2022-09-14 19:30	7201810	8.391	-126.55	279.24	14.217	422.567	532.175	0.259	0.346	8.600	14.217	1.997
2022-09-14 19:45	7202710	8.380	-125.883	278.231	14.172	422.2	532.286	0.259	0.346	8.104	14.172	2.042
2022-09-14 20:00	7203610	8.347	-124.059	277.504	14.117	421.892	532.602	0.259	0.346	8.197	14.117	1.923
2022-09-14 20:15	7204510	8.360	-124.75	279.965	14.059	420.793	531.959	0.259	0.346	8.235	14.059	2.102
2022-09-14 20:30	7205410	8.364	-124.958	281.665	14.043	420.708	532.057	0.259	0.346	8.433	14.043	1.983
2022-09-14 20:45	7206310	8.357	-124.543	282.199	14.019	420.561	532.181	0.259	0.346	8.457	14.019	2.089
2022-09-14 21:00	7207210	8.351	-124.192	279.724	14.014	420.85	532.608	0.259	0.346	8.535	14.014	2.015
2022-09-14 21:15	7208110	8.346	-123.947	283.016	14.014	421.009	532.816	0.259	0.346	8.282	14.014	1.757
2022-09-14 21:30	7209010	8.331	-123.112	282.282	14.003	421.187	533.174	0.259	0.347	8.135	14.003	1.745
2022-09-14 21:45	7209910	8.308	-121.82	282.625	14.006	421.36	533.36	0.259	0.347	8.126	14.006	1.786
2022-09-14 22:00	7210810	8.274	-119.963	278.668	14.011	421.645	533.657	0.259	0.347	7.997	14.011	2.327
2022-09-14 22:15	7211710	8.278	-120.175	280.811	14.013	421.974	534.05	0.260	0.347	8.044	14.013	1.855
2022-09-14 22:30	7212610	8.276	-120.077	282.819	14.011	421.86	533.925	0.259	0.347	7.964	14.011	1.808
2022-09-14 22:45	7213510	8.291	-120.876	284.626	14.001	421.436	533.52	0.259	0.347	7.773	14.001	1.722

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-14 23:00	7214410	8.293	-121.005	283.35	13.982	421.333	533.627	0.259	0.347	7.618	13.982	1.784
2022-09-14 23:15	7215310	8.292	-120.919	286.459	13.959	421.377	533.987	0.260	0.347	7.584	13.959	1.773
2022-09-14 23:30	7216210	8.311	-121.97	285.367	13.936	420.776	533.524	0.259	0.347	7.507	13.936	1.792
2022-09-14 23:45	7217110	8.326	-122.781	284.523	13.919	420.656	533.582	0.259	0.347	7.541	13.919	1.684
2022-09-15 00:00	7218010	8.298	-121.191	283.264	13.873	420.043	533.399	0.259	0.347	7.478	13.873	1.613
2022-09-15 00:15	7218910	8.332	-123.065	283.815	13.826	418.741	532.357	0.259	0.346	7.625	13.826	1.767
2022-09-15 00:30	7219810	8.334	-123.16	283.992	13.804	418.6	532.468	0.259	0.346	7.844	13.804	1.748
2022-09-15 00:45	7220710	8.325	-122.693	284.042	13.765	418.22	532.48	0.259	0.346	7.693	13.765	1.596
2022-09-15 01:00	7221610	8.303	-121.415	283.107	13.728	418.35	533.136	0.259	0.347	7.609	13.728	2.066
2022-09-15 01:15	7222510	8.325	-122.628	285.677	13.705	418	532.979	0.259	0.346	7.362	13.705	1.934
2022-09-15 01:30	7223410	8.329	-122.836	283.179	13.682	417.91	533.166	0.259	0.347	7.296	13.682	1.733
2022-09-15 01:45	7224310	8.322	-122.478	283.519	13.661	418.208	533.824	0.259	0.347	7.178	13.661	1.698
2022-09-15 02:00	7225210	8.251	-118.477	282.091	13.6	417.49	533.7	0.259	0.347	7.023	13.6	1.883
2022-09-15 02:15	7226110	8.308	-121.617	283.272	13.529	415.467	532.029	0.258	0.346	7.195	13.529	1.806
2022-09-15 02:30	7227010	8.325	-122.547	284.352	13.462	414.819	532.071	0.258	0.346	7.542	13.462	2.119
2022-09-15 02:45	7227910	8.338	-123.198	283.703	13.385	413.991	532.018	0.258	0.346	7.932	13.385	1.939
2022-09-15 03:00	7228810	8.335	-123.026	282.284	13.344	413.855	532.377	0.259	0.346	8.115	13.344	2.328
2022-09-15 03:15	7229710	8.329	-122.683	283.503	13.334	413.959	532.643	0.259	0.346	7.954	13.334	2.193
2022-09-15 03:30	7230610	8.320	-122.213	283.357	13.3	413.636	532.672	0.259	0.346	7.803	13.3	2.061
2022-09-15 03:45	7231510	8.314	-121.844	282.411	13.268	413.23	532.571	0.259	0.346	7.674	13.268	1.992
2022-09-15 04:00	7232410	8.298	-120.931	280.596	13.211	412.88	532.86	0.259	0.346	7.636	13.211	2.152
2022-09-15 04:15	7233310	8.303	-121.226	283.412	13.182	412.417	532.655	0.259	0.346	7.635	13.182	2.022
2022-09-15 04:30	7234210	8.305	-121.269	285.83	13.133	411.898	532.619	0.259	0.346	7.674	13.133	2.218
2022-09-15 04:45	7235110	8.304	-121.2	287.022	13.066	411.276	532.698	0.259	0.346	7.840	13.066	2.263
2022-09-15 05:00	7236010	8.291	-120.492	285.689	13.073	411.723	533.179	0.259	0.347	7.781	13.073	2.047
2022-09-15 05:15	7236910	8.285	-120.132	287.642	13.074	411.735	533.194	0.259	0.347	7.430	13.074	2.456
2022-09-15 05:30	7237810	8.288	-120.33	285.908	13.036	411.533	533.423	0.259	0.347	7.418	13.036	1.994
2022-09-15 05:45	7238710	8.299	-120.924	284.609	13.008	411.251	533.436	0.259	0.347	7.495	13.008	2.167
2022-09-15 06:00	7239610	8.270	-119.288	282.444	12.979	411.133	533.66	0.259	0.347	7.339	12.979	1.931
2022-09-15 06:15	7240510	8.276	-119.588	284.752	12.965	410.836	533.459	0.259	0.347	7.288	12.965	1.959
2022-09-15 06:30	7241410	8.287	-120.213	285.83	12.941	410.515	533.358	0.259	0.347	7.587	12.941	1.949
2022-09-15 06:45	7242310	8.263	-118.904	284.254	12.95	411.075	533.968	0.259	0.347	7.398	12.95	1.776
2022-09-15 07:00	7243210	8.233	-117.252	285.286	12.954	411.249	534.145	0.259	0.347	7.105	12.954	1.775
2022-09-15 07:15	7244110	8.242	-117.743	287.794	12.95	411.345	534.318	0.259	0.347	6.911	12.95	1.764
2022-09-15 07:30	7245010	8.238	-117.528	286.774	12.941	411.12	534.155	0.259	0.347	6.702	12.941	1.983
2022-09-15 07:45	7245911	8.266	-119.045	285.529	12.911	410.505	533.742	0.259	0.347	6.861	12.911	2.208
2022-09-15 08:00	7246811	8.254	-118.384	280.732	12.868	410.171	533.882	0.259	0.347	7.050	12.868	2.035
2022-09-15 08:15	7247711	8.273	-119.421	284.747	12.837	409.507	533.425	0.259	0.347	7.072	12.837	1.915
2022-09-15 08:30	7248611	8.268	-119.128	287.434	12.833	409.695	533.723	0.259	0.347	7.223	12.833	1.837
2022-09-15 08:45	7249511	8.251	-118.184	288.603	12.826	409.598	533.695	0.259	0.347	6.988	12.826	1.781
2022-09-15 09:00	7250411	8.246	-117.891	286.9	12.796	409.318	533.734	0.259	0.347	6.788	12.796	1.906
2022-09-15 09:15	7251311	8.277	-119.588	286.099	12.796	409.292	533.697	0.259	0.347	6.955	12.796	1.877
2022-09-15 09:30	7252211	8.277	-119.576	286.786	12.784	409.099	533.607	0.259	0.347	7.045	12.784	1.933
2022-09-15 09:45	7253111	8.287	-120.149	284.447	12.779	408.922	533.436	0.259	0.347	7.539	12.779	1.968
2022-09-15 10:00	7254011	8.259	-118.616	282.637	12.773	408.956	533.558	0.259	0.347	7.312	12.773	1.73
2022-09-15 10:15	7254911	8.274	-119.441	284.466	12.778	408.984	533.53	0.259	0.347	7.119	12.778	1.656
2022-09-15 10:30	7255811	8.283	-119.927	286.235	12.778	408.843	533.344	0.259	0.347	7.020	12.778	1.704
2022-09-15 10:45	7256711	8.292	-120.437	286.545	12.797	409.012	533.315	0.259	0.347	7.352	12.797	1.769

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-15 11:00	7257611	8.243	-117.712	285.658	12.827	409.761	533.896	0.259	0.347	7.252	12.827	1.525
2022-09-15 11:15	7258511	8.235	-117.3	287.027	12.879	410.187	533.758	0.259	0.347	7.245	12.879	1.652
2022-09-15 11:30	7259411	8.204	-115.607	286.395	12.931	410.499	533.473	0.259	0.347	7.121	12.931	1.611
2022-09-15 11:45	7260311	8.188	-114.763	286.032	12.982	411.155	533.648	0.259	0.347	7.189	12.982	1.75
2022-09-15 12:00	7261211	8.191	-114.951	284.197	13.022	411.768	533.917	0.259	0.347	7.292	13.022	2.075
2022-09-15 12:15	7262111	8.202	-115.578	285.081	13.075	412.648	534.359	0.259	0.347	7.562	13.075	2.095
2022-09-15 12:30	7263011	8.202	-115.569	285.532	13.131	413.306	534.466	0.259	0.347	7.002	13.131	2.041
2022-09-15 12:45	7263911	8.190	-114.934	286.636	13.187	413.945	534.554	0.260	0.347	7.054	13.187	1.887
2022-09-15 13:00	7264811	8.204	-115.743	286.507	13.242	413.764	533.595	0.259	0.347	7.020	13.242	1.79
2022-09-15 13:15	7265711	8.188	-114.889	285.818	13.31	413.487	532.351	0.258	0.346	7.635	13.31	1.762
2022-09-15 13:30	7266611	8.183	-114.61	284.266	13.363	414.014	532.335	0.258	0.346	7.761	13.363	1.881
2022-09-15 13:45	7267511	8.185	-114.756	281.667	13.409	414.848	532.804	0.259	0.346	7.912	13.409	1.709
2022-09-15 14:00	7268411	8.202	-115.736	280.673	13.433	415.476	533.293	0.259	0.347	7.600	13.433	1.532
2022-09-15 14:15	7269311	8.176	-114.255	283.446	13.445	415.461	533.118	0.259	0.347	7.584	13.445	1.635
2022-09-15 14:30	7270211	8.261	-118.959	284.878	13.447	415.109	532.642	0.259	0.346	7.836	13.447	1.662
2022-09-15 14:45	7271111	8.294	-120.819	285.367	13.448	414.69	532.093	0.258	0.346	7.707	13.448	1.555
2022-09-15 15:00	7272011	8.279	-120.008	283.534	13.469	415.361	532.677	0.259	0.346	8.011	13.469	1.947
2022-09-15 15:15	7272911	8.283	-120.22	284.652	13.5	415.717	532.732	0.259	0.346	7.773	13.5	2.051
2022-09-15 15:30	7273811	8.298	-121.078	283.229	13.509	416.029	533.019	0.259	0.346	7.717	13.509	2.153
2022-09-15 15:45	7274711	8.376	-125.408	280.53	13.511	416.047	533.005	0.259	0.346	7.594	13.511	1.846
2022-09-15 16:00	7275611	8.293	-120.785	280.158	13.499	415.857	532.93	0.259	0.346	7.677	13.499	1.86
2022-09-15 16:15	7276511	8.319	-122.218	281.703	13.489	415.465	532.546	0.259	0.346	7.979	13.489	1.842
2022-09-15 16:30	7277411	8.317	-122.097	280.213	13.492	415.618	532.711	0.259	0.346	7.911	13.492	1.685
2022-09-15 16:45	7278311	8.324	-122.497	280.599	13.503	415.702	532.674	0.259	0.346	7.999	13.503	1.642
2022-09-15 17:00	7279211	8.290	-120.64	280.334	13.523	416.237	533.095	0.259	0.347	7.663	13.523	2.362
2022-09-15 17:15	7280111	8.324	-122.542	282.592	13.549	416.527	533.131	0.259	0.347	7.621	13.549	1.726
2022-09-15 17:30	7281011	8.319	-122.256	282.418	13.56	416.647	533.14	0.259	0.347	7.605	13.56	1.881
2022-09-15 17:45	7281911	8.322	-122.404	282.728	13.576	416.77	533.085	0.259	0.347	7.687	13.576	1.742
2022-09-15 18:00	7282811	8.265	-119.271	276.603	13.583	416.56	532.726	0.259	0.346	7.778	13.583	1.732
2022-09-15 18:15	7283711	8.324	-122.55	281.471	13.589	416.231	532.236	0.259	0.346	7.851	13.589	1.686
2022-09-15 18:30	7284611	8.339	-123.341	281.345	13.591	415.978	531.884	0.258	0.346	8.056	13.591	1.786
2022-09-15 18:45	7285511	8.358	-124.4	282.37	13.594	416.076	531.972	0.258	0.346	8.125	13.594	1.651
2022-09-15 19:00	7286411	8.322	-122.418	282.11	13.598	416.548	532.525	0.259	0.346	8.025	13.598	1.816
2022-09-15 19:15	7287311	8.335	-123.15	285.074	13.599	416.84	532.886	0.259	0.346	7.646	13.599	2.08
2022-09-15 19:30	7288211	8.343	-123.587	281.185	13.582	416.521	532.697	0.259	0.346	7.732	13.582	1.916
2022-09-15 19:45	7289111	8.343	-123.608	280.999	13.575	416.458	532.706	0.259	0.346	8.037	13.575	1.735
2022-09-15 20:00	7290011	8.314	-121.996	278.115	13.572	416.09	532.275	0.259	0.346	8.211	13.572	2.063
2022-09-15 20:15	7290911	8.313	-121.937	279.838	13.577	415.977	532.064	0.258	0.346	8.480	13.577	1.756
2022-09-15 20:30	7291811	8.353	-124.145	281.56	13.567	415.8	531.962	0.258	0.346	8.366	13.567	1.64
2022-09-15 20:45	7292711	8.316	-122.058	282.039	13.569	416.059	532.267	0.259	0.346	8.260	13.569	1.777
2022-09-15 21:00	7293611	8.309	-121.696	283.348	13.563	416.124	532.428	0.259	0.346	8.264	13.563	1.81
2022-09-15 21:15	7294511	8.336	-123.193	284.182	13.56	416.441	532.873	0.259	0.346	7.787	13.56	1.668
2022-09-15 21:30	7295411	8.312	-121.865	284.156	13.551	416.471	533.034	0.259	0.346	7.583	13.551	1.899
2022-09-15 21:45	7296311	8.285	-120.344	283.157	13.541	416.627	533.356	0.259	0.347	7.352	13.541	1.809
2022-09-15 22:00	7297211	8.221	-116.799	281.889	13.518	416.277	533.217	0.259	0.347	7.217	13.518	1.721
2022-09-15 22:15	7298111	8.291	-120.692	283.221	13.498	415.351	532.289	0.259	0.346	7.250	13.498	1.626
2022-09-15 22:30	7299011	8.294	-120.79	281.955	13.454	414.415	531.665	0.258	0.346	6.962	13.454	1.607
2022-09-15 22:45	7299911	8.316	-122.042	279.361	13.424	414.263	531.864	0.258	0.346	7.350	13.424	1.784

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-15 23:00	7300811	8.296	-120.931	276.901	13.409	414.806	532.751	0.259	0.346	7.540	13.409	1.754
2022-09-15 23:15	7301711	8.334	-123	280.112	13.393	414.876	533.055	0.259	0.346	7.276	13.393	1.828
2022-09-15 23:30	7302611	8.309	-121.62	280.687	13.336	413.746	532.336	0.258	0.346	7.241	13.336	2.096
2022-09-15 23:45	7303511	8.329	-122.69	281.994	13.308	413.686	532.632	0.259	0.346	7.493	13.308	1.76
2022-09-16 00:00	7304411	8.287	-120.342	278.231	13.266	412.95	532.228	0.258	0.346	7.546	13.266	1.893
2022-09-16 00:15	7305311	8.308	-121.505	280.751	13.224	412.195	531.814	0.258	0.346	7.631	13.224	1.703
2022-09-16 00:30	7306211	8.299	-120.947	284.166	13.171	411.594	531.73	0.258	0.346	7.564	13.171	1.765
2022-09-16 00:45	7307111	8.351	-123.842	284.085	13.098	410.623	531.434	0.258	0.345	7.692	13.098	2.014
2022-09-16 01:00	7308011	8.325	-122.38	279.738	13.115	411.478	532.321	0.258	0.346	8.231	13.115	1.956
2022-09-16 01:15	7308911	8.324	-122.323	282.754	13.089	411.536	532.733	0.259	0.346	7.570	13.089	1.701
2022-09-16 01:30	7309811	8.317	-121.906	282.172	12.983	410.165	532.356	0.258	0.346	7.416	12.983	2.062
2022-09-16 01:45	7310711	8.333	-122.736	282.94	12.868	408.698	531.97	0.258	0.346	7.810	12.868	2.166
2022-09-16 02:00	7311611	8.338	-122.993	280.086	12.813	408.012	531.798	0.258	0.346	8.163	12.813	1.998
2022-09-16 02:15	7312511	8.333	-122.685	282.814	12.774	407.486	531.628	0.258	0.346	8.131	12.774	1.977
2022-09-16 02:30	7313411	8.319	-121.925	285.789	12.755	407.505	531.902	0.258	0.346	7.934	12.755	1.79
2022-09-16 02:45	7314311	8.308	-121.279	286.764	12.721	407.378	532.189	0.258	0.346	7.835	12.721	2.079
2022-09-16 03:00	7315211	8.311	-121.45	285.541	12.675	407.115	532.455	0.258	0.346	7.957	12.675	2.151
2022-09-16 03:15	7316111	8.324	-122.161	287.239	12.663	407.007	532.475	0.258	0.346	7.780	12.663	2.041
2022-09-16 03:30	7317011	8.331	-122.53	286.33	12.615	406.712	532.737	0.258	0.346	7.725	12.615	2.195
2022-09-16 03:45	7317911	8.323	-122.077	284.206	12.589	406.369	532.634	0.258	0.346	7.884	12.589	2.002
2022-09-16 04:00	7318811	8.310	-121.3	282.082	12.552	406.165	532.852	0.258	0.346	7.743	12.552	1.914
2022-09-16 04:15	7319711	8.306	-121.076	284.497	12.526	405.932	532.89	0.258	0.346	7.674	12.526	1.944
2022-09-16 04:30	7320611	8.294	-120.44	285.892	12.513	405.83	532.937	0.258	0.346	7.550	12.513	1.789
2022-09-16 04:45	7321511	8.275	-119.34	287.484	12.482	405.694	533.168	0.259	0.347	7.424	12.482	1.951
2022-09-16 05:00	7322411	8.283	-119.784	286.299	12.448	405.263	533.057	0.259	0.346	7.572	12.448	2.177
2022-09-16 05:15	7323311	8.292	-120.28	288.331	12.433	404.99	532.904	0.258	0.346	7.508	12.433	1.922
2022-09-16 05:30	7324211	8.291	-120.184	288.011	12.406	404.724	532.917	0.258	0.346	7.550	12.406	2.099
2022-09-16 05:45	7325111	8.297	-120.537	286.414	12.381	404.535	532.995	0.258	0.346	7.578	12.381	2.135
2022-09-16 06:00	7326011	8.301	-120.718	281.703	12.33	404.194	533.242	0.259	0.347	7.550	12.33	2.022
2022-09-16 06:15	7326911	8.289	-120.084	283.755	12.318	404.157	533.35	0.259	0.347	7.588	12.318	1.953
2022-09-16 06:30	7327811	8.266	-118.79	284.759	12.311	404.286	533.617	0.259	0.347	7.368	12.311	1.809
2022-09-16 06:45	7328711	8.276	-119.345	284.437	12.293	403.995	533.476	0.259	0.347	7.520	12.293	1.794
2022-09-16 07:00	7329611	8.258	-118.346	282.27	12.295	404.155	533.652	0.259	0.347	7.523	12.295	1.873
2022-09-16 07:15	7330511	8.254	-118.098	285.73	12.289	404.079	533.638	0.259	0.347	7.261	12.289	1.944
2022-09-16 07:30	7331411	8.272	-119.09	284.986	12.263	403.684	533.47	0.259	0.347	7.082	12.263	2.066
2022-09-16 07:45	7332311	8.274	-119.209	284.089	12.252	403.667	533.584	0.259	0.347	7.197	12.252	1.943
2022-09-16 08:00	7333211	8.260	-118.42	283.114	12.233	403.759	533.965	0.259	0.347	7.086	12.233	1.75
2022-09-16 08:15	7334111	8.269	-118.899	285.794	12.215	403.495	533.857	0.259	0.347	7.094	12.215	1.82
2022-09-16 08:30	7335011	8.243	-117.497	287.875	12.216	403.623	534.014	0.259	0.347	7.078	12.216	1.751
2022-09-16 08:45	7335911	8.244	-117.548	287.179	12.208	403.548	534.021	0.259	0.347	6.959	12.208	2.111
2022-09-16 09:00	7336811	8.243	-117.457	285.536	12.208	403.207	533.576	0.259	0.347	7.237	12.208	2.21
2022-09-16 09:15	7337711	8.250	-117.846	287.05	12.217	403.318	533.6	0.259	0.347	7.283	12.217	2.551
2022-09-16 09:30	7338611	8.286	-119.843	285.052	12.23	403.537	533.715	0.259	0.347	7.324	12.23	1.678
2022-09-16 09:45	7339511	8.279	-119.493	284.764	12.247	403.756	533.769	0.259	0.347	7.422	12.247	1.534
2022-09-16 10:00	7340411	8.254	-118.117	282.802	12.264	403.968	533.832	0.259	0.347	7.237	12.264	2.079
2022-09-16 10:15	7341311	8.230	-116.777	285.341	12.289	404.458	534.135	0.259	0.347	7.172	12.289	2.235
2022-09-16 10:30	7342211	8.209	-115.669	287.732	12.311	404.823	534.32	0.259	0.347	6.834	12.311	1.798
2022-09-16 10:45	7343111	8.182	-114.176	289.351	12.335	405.115	534.377	0.259	0.347	6.795	12.335	2.258

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-16 11:00	7344011	8.197	-115.001	288.979	12.366	405.044	533.87	0.259	0.347	6.868	12.366	1.839
2022-09-16 11:15	7344911	8.192	-114.722	289.234	12.414	405.562	533.909	0.259	0.347	7.289	12.414	1.691
2022-09-16 11:30	7345811	8.156	-112.796	288.924	12.453	406.146	534.158	0.259	0.347	7.154	12.453	1.59
2022-09-16 11:45	7346711	8.140	-111.933	289.146	12.49	405.811	533.218	0.259	0.347	6.980	12.49	1.692
2022-09-16 12:00	7347611	8.183	-114.288	284.051	12.516	406.385	533.62	0.259	0.347	7.257	12.516	2.081
2022-09-16 12:15	7348511	8.176	-113.904	283.76	12.548	406.66	533.552	0.259	0.347	7.761	12.548	2.444
2022-09-16 12:30	7349411	8.215	-116.091	283.539	12.59	407.042	533.498	0.259	0.347	7.592	12.59	2.193
2022-09-16 12:45	7350311	8.262	-118.685	283.5	12.651	407.639	533.471	0.259	0.347	7.665	12.651	2.141
2022-09-16 13:00	7351211	8.278	-119.596	282.456	12.717	407.919	532.949	0.259	0.346	7.666	12.717	2.58
2022-09-16 13:15	7352111	8.271	-119.29	283.169	12.806	408.731	532.826	0.259	0.346	8.175	12.806	2.239
2022-09-16 13:30	7353011	8.288	-120.261	281.884	12.871	409.402	532.843	0.259	0.346	8.318	12.871	2.13
2022-09-16 13:45	7353911	8.283	-120.003	280.625	12.946	410.28	532.992	0.259	0.346	8.298	12.946	2.096
2022-09-16 14:00	7354811	8.274	-119.505	276.481	12.998	411.155	533.447	0.259	0.347	8.291	12.998	2.474
2022-09-16 14:15	7355711	8.318	-121.987	277.614	13.06	411.924	533.618	0.259	0.347	8.515	13.06	2.325
2022-09-16 14:30	7356611	8.306	-121.338	279.009	13.124	412.88	534.01	0.259	0.347	8.337	13.124	2.458
2022-09-16 14:45	7357511	8.333	-122.84	278.303	13.179	413.623	534.243	0.259	0.347	8.485	13.179	2.235
2022-09-16 15:00	7358411	8.330	-122.724	276.562	13.259	414.339	534.115	0.259	0.347	8.361	13.259	2.425
2022-09-16 15:15	7359311	8.334	-122.993	276.608	13.337	415.014	533.961	0.259	0.347	8.522	13.337	2.356
2022-09-16 15:30	7360211	8.322	-122.323	276.021	13.395	415.613	533.973	0.259	0.347	8.572	13.395	1.988
2022-09-16 15:45	7361111	8.324	-122.466	275.47	13.454	416.424	534.233	0.259	0.347	8.533	13.454	2.134
2022-09-16 16:00	7362011	8.289	-120.578	273.456	13.49	417.088	534.624	0.260	0.348	8.519	13.49	2.198
2022-09-16 16:15	7362911	8.319	-122.213	274.96	13.502	417.402	534.863	0.260	0.348	8.751	13.502	2.175
2022-09-16 16:30	7363811	8.324	-122.519	277.154	13.511	417.68	535.103	0.260	0.348	8.509	13.511	2.108
2022-09-16 16:45	7364711	8.340	-123.394	278.813	13.524	417.671	534.921	0.260	0.348	8.810	13.524	2.549
2022-09-16 17:00	7365611	8.367	-124.905	276.52	13.527	417.301	534.414	0.260	0.347	9.028	13.527	2.476
2022-09-16 17:15	7366511	8.379	-125.561	276.365	13.53	416.863	533.806	0.259	0.347	9.253	13.53	2.595
2022-09-16 17:30	7367411	8.409	-127.22	271.553	13.522	415.845	532.603	0.259	0.346	9.791	13.522	2.885
2022-09-16 17:45	7368311	8.414	-127.492	268.964	13.529	415.972	532.681	0.259	0.346	10.046	13.529	2.731
2022-09-16 18:00	7369211	8.424	-128.028	266.034	13.527	416.1	532.868	0.259	0.346	10.095	13.527	2.602
2022-09-16 18:15	7370111	8.450	-129.454	266.706	13.498	416.581	533.871	0.259	0.347	9.862	13.498	3.032
2022-09-16 18:30	7371011	8.417	-127.628	271.188	13.432	416.771	534.972	0.260	0.348	9.284	13.432	2.74
2022-09-16 18:45	7371911	8.394	-126.309	276.298	13.338	416.554	535.926	0.260	0.348	8.999	13.338	3.266
2022-09-16 19:00	7372811	8.390	-126.057	277.049	13.299	416.079	535.826	0.260	0.348	8.994	13.299	2.943
2022-09-16 19:15	7373711	8.397	-126.46	279.719	13.295	416.05	535.852	0.260	0.348	9.021	13.295	2.783
2022-09-16 19:30	7374611	8.386	-125.828	280.573	13.282	415.962	535.904	0.260	0.348	8.878	13.282	2.668
2022-09-16 19:45	7375511	8.374	-125.139	278.32	13.266	415.807	535.918	0.260	0.348	8.874	13.266	2.885
2022-09-16 20:00	7376411	8.361	-124.412	274.433	13.248	415.893	536.262	0.260	0.349	8.714	13.248	2.448
2022-09-16 20:15	7377311	8.352	-123.954	277.623	13.229	415.952	536.599	0.261	0.349	8.527	13.229	2.355
2022-09-16 20:30	7378211	8.323	-122.299	280.84	13.203	415.333	536.134	0.260	0.348	8.368	13.203	2.187
2022-09-16 20:45	7379111	8.324	-122.359	282.258	13.169	414.553	535.575	0.260	0.348	8.167	13.169	2.239
2022-09-16 21:00	7380011	8.311	-121.629	282.685	13.158	414.671	535.875	0.260	0.348	8.043	13.158	2.182
2022-09-16 21:15	7380911	8.320	-122.132	284.316	13.143	414.613	535.995	0.260	0.348	7.973	13.143	3.903
2022-09-16 21:30	7381811	8.291	-120.499	284.001	13.128	414.351	535.857	0.260	0.348	7.846	13.128	2.345
2022-09-16 21:45	7382711	8.279	-119.848	283.3	13.109	414.082	535.763	0.260	0.348	7.751	13.109	2.279
2022-09-16 22:00	7383611	8.264	-119.03	280.78	13.094	413.614	535.356	0.260	0.348	7.681	13.094	2.192
2022-09-16 22:15	7384511	8.270	-119.348	283.09	13.054	412.153	533.998	0.259	0.347	7.616	13.054	2.464
2022-09-16 22:30	7385411	8.269	-119.243	284.316	13.03	411.623	533.618	0.259	0.347	7.655	13.03	2.307
2022-09-16 22:45	7386311	8.282	-119.948	284.747	13.012	411.402	533.573	0.259	0.347	7.531	13.012	2.055

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-16 23:00	7387211	8.283	-120.02	284.781	12.991	411.303	533.719	0.259	0.347	7.534	12.991	2.542
2022-09-16 23:15	7388111	8.282	-119.936	286.183	12.974	411.231	533.854	0.259	0.347	7.641	12.974	2.454
2022-09-16 23:30	7389011	8.268	-119.162	286.841	12.951	411.313	534.27	0.259	0.347	7.601	12.951	3.163
2022-09-16 23:45	7389911	8.262	-118.825	285.866	12.934	411.327	534.517	0.259	0.347	7.457	12.934	2.452
2022-09-17 00:00	7390811	8.247	-117.979	284.948	12.902	410.921	534.413	0.259	0.347	7.416	12.902	2.259
2022-09-17 00:15	7391711	8.271	-119.317	286.535	12.87	410.316	534.048	0.259	0.347	7.414	12.87	2.649
2022-09-17 00:30	7392611	8.245	-117.853	287.737	12.85	410.166	534.118	0.259	0.347	7.274	12.85	2.277
2022-09-17 00:45	7393511	8.240	-117.59	289.723	12.835	409.852	533.903	0.259	0.347	7.236	12.835	2.087
2022-09-17 01:00	7394411	8.259	-118.606	289.22	12.802	409.272	533.589	0.259	0.347	7.185	12.802	2.283
2022-09-17 01:15	7395311	8.272	-119.29	290.801	12.776	408.94	533.504	0.259	0.347	7.263	12.776	2.434
2022-09-17 01:30	7396211	8.287	-120.103	289.18	12.738	408.145	532.97	0.259	0.346	7.202	12.738	2.558
2022-09-17 01:45	7397111	8.279	-119.705	286.791	12.727	408.187	533.167	0.259	0.347	7.232	12.727	2.192
2022-09-17 02:00	7398011	8.235	-117.211	285.765	12.692	407.393	532.604	0.258	0.346	7.123	12.692	2.218
2022-09-17 02:15	7398911	8.283	-119.886	286.078	12.635	406.247	531.862	0.258	0.346	7.186	12.635	2.849
2022-09-17 02:30	7399811	8.287	-120.089	284.936	12.589	405.202	531.104	0.258	0.345	7.794	12.589	3.142
2022-09-17 02:45	7400711	8.313	-121.484	284.535	12.557	404.373	530.438	0.257	0.345	8.064	12.557	2.902
2022-09-17 03:00	7401611	8.297	-120.58	284.304	12.528	404.02	530.355	0.257	0.345	8.035	12.528	3.167
2022-09-17 03:15	7402511	8.305	-121.021	286.099	12.513	403.929	530.445	0.257	0.345	8.283	12.513	3.015
2022-09-17 03:30	7403411	8.314	-121.5	286.28	12.505	403.515	530.006	0.257	0.345	8.158	12.505	3.011
2022-09-17 03:45	7404311	8.313	-121.462	286.185	12.491	403.456	530.115	0.257	0.345	8.027	12.491	2.835
2022-09-17 04:00	7405211	8.282	-119.731	282.885	12.468	403.215	530.099	0.257	0.345	7.869	12.468	2.639
2022-09-17 04:15	7406111	8.273	-119.212	283.717	12.447	402.807	529.843	0.257	0.344	7.724	12.447	2.744
2022-09-17 04:30	7407011	8.256	-118.268	286.848	12.416	401.972	529.155	0.257	0.344	7.539	12.416	2.781
2022-09-17 04:45	7407911	8.249	-117.862	288.529	12.362	399.341	526.408	0.255	0.342	7.429	12.362	2.796
2022-09-17 05:00	7408811	8.241	-117.397	288.55	12.339	399.327	526.69	0.255	0.342	7.343	12.339	2.888
2022-09-17 05:15	7409711	8.268	-118.887	289.592	12.318	399.049	526.604	0.255	0.342	7.367	12.318	5.31
2022-09-17 05:30	7410611	8.255	-118.198	289.258	12.293	398.104	525.687	0.255	0.342	7.295	12.293	2.883
2022-09-17 05:45	7411511	8.246	-117.648	288.834	12.256	398.409	526.587	0.255	0.342	7.524	12.256	2.827
2022-09-17 06:00	7412411	8.266	-118.787	284.604	12.243	399.236	527.854	0.256	0.343	7.734	12.243	3.139
2022-09-17 06:15	7413311	8.282	-119.634	286.085	12.228	399.197	527.998	0.256	0.343	7.697	12.228	3.044
2022-09-17 06:30	7414211	8.282	-119.629	287.947	12.207	399.219	528.309	0.256	0.343	7.724	12.207	4.493
2022-09-17 06:45	7415111	8.281	-119.545	288.529	12.2	399.314	528.524	0.256	0.344	7.761	12.2	3.138
2022-09-17 07:00	7416011	8.285	-119.762	286.612	12.18	398.775	528.086	0.256	0.343	7.815	12.18	3.029
2022-09-17 07:15	7416911	8.286	-119.815	287.976	12.161	398.245	527.639	0.256	0.343	7.741	12.161	3.103
2022-09-17 07:30	7417811	8.272	-119.059	286.795	12.136	397.714	527.259	0.255	0.343	7.806	12.136	3.188
2022-09-17 07:45	7418712	8.278	-119.379	285.286	12.121	397.512	527.193	0.255	0.343	7.855	12.121	3.05
2022-09-17 08:00	7419612	8.276	-119.278	280.778	12.136	398.133	527.814	0.256	0.343	7.913	12.136	2.925
2022-09-17 08:15	7420512	8.290	-120.006	282.025	12.114	397.726	527.569	0.256	0.343	7.807	12.114	3.122
2022-09-17 08:30	7421412	8.278	-119.367	283.415	12.09	397.483	527.569	0.256	0.343	7.797	12.09	2.858
2022-09-17 08:45	7422312	8.277	-119.295	281.944	12.074	397.127	527.309	0.255	0.343	7.719	12.074	3.395
2022-09-17 09:00	7423212	8.281	-119.491	282.137	12.03	395.925	526.304	0.255	0.342	7.679	12.03	3.025
2022-09-17 09:15	7424112	8.287	-119.834	282.869	12.025	395.493	525.799	0.255	0.342	7.832	12.025	3.086
2022-09-17 09:30	7425012	8.273	-119.073	283.679	12.003	394.642	524.958	0.254	0.341	7.926	12.003	2.772
2022-09-17 09:45	7425912	8.276	-119.197	282.11	11.998	394.411	524.722	0.254	0.341	7.874	11.998	2.922
2022-09-17 10:00	7426812	8.283	-119.574	279.96	11.998	394.389	524.69	0.254	0.341	7.865	11.998	3.747
2022-09-17 10:15	7427712	8.286	-119.736	281.796	11.999	394.413	524.707	0.254	0.341	7.818	11.999	3.207
2022-09-17 10:30	7428612	8.271	-118.926	284.621	11.991	393.951	524.197	0.254	0.341	7.784	11.991	3.201
2022-09-17 10:45	7429512	8.276	-119.216	284.263	11.989	393.503	523.628	0.254	0.340	7.806	11.989	3.012

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-17 11:00	7430412	8.279	-119.395	283.064	11.986	392.892	522.853	0.253	0.340	7.855	11.986	2.785
2022-09-17 11:15	7431312	8.294	-120.225	283.689	11.986	392.508	522.351	0.253	0.340	7.998	11.986	2.963
2022-09-17 11:30	7432212	8.280	-119.421	284.323	11.982	392.337	522.167	0.253	0.339	7.967	11.982	3.156
2022-09-17 11:45	7433112	8.289	-119.908	282.07	11.974	391.34	520.949	0.252	0.339	8.071	11.974	2.794
2022-09-17 12:00	7434012	8.260	-118.353	280.987	11.99	392.524	522.31	0.253	0.340	8.147	11.99	3.168
2022-09-17 12:15	7434912	8.307	-120.926	280.742	11.998	392.655	522.376	0.253	0.340	8.313	11.998	3.141
2022-09-17 12:30	7435812	8.319	-121.56	282.263	11.984	391.732	521.341	0.252	0.339	8.462	11.984	3.279
2022-09-17 12:45	7436712	8.329	-122.099	282.284	11.984	391.103	520.503	0.252	0.338	8.566	11.984	2.978
2022-09-17 13:00	7437612	8.342	-122.814	280.36	11.972	389.536	518.58	0.251	0.337	8.624	11.972	3.056
2022-09-17 13:15	7438512	8.344	-122.917	278.93	11.938	387.513	516.332	0.250	0.336	8.724	11.938	3.02
2022-09-17 13:30	7439412	8.344	-122.912	275.292	11.917	386.586	515.375	0.249	0.335	8.887	11.917	2.916
2022-09-17 13:45	7440312	8.371	-124.393	273.966	11.901	386.088	514.92	0.249	0.335	8.973	11.901	3.075
2022-09-17 14:00	7441212	8.354	-123.446	272.469	11.908	386.961	515.983	0.250	0.335	8.977	11.908	3.161
2022-09-17 14:15	7442112	8.364	-124.047	272.726	11.914	387.636	516.81	0.250	0.336	9.031	11.914	3.267
2022-09-17 14:30	7443012	8.359	-123.782	275.952	11.938	388.223	517.276	0.250	0.336	8.854	11.938	3.162
2022-09-17 14:45	7443912	8.355	-123.534	277.378	11.937	388.083	517.099	0.250	0.336	8.845	11.937	3.259
2022-09-17 15:00	7444812	8.372	-124.474	277.12	11.916	386.065	514.69	0.249	0.335	9.115	11.916	2.76
2022-09-17 15:15	7445712	8.404	-126.226	275.065	11.915	385.873	514.45	0.249	0.334	9.204	11.915	3.348
2022-09-17 15:30	7446612	8.369	-124.311	273.329	11.924	386.34	514.949	0.249	0.335	9.172	11.924	2.868
2022-09-17 15:45	7447512	8.401	-126.073	273.303	11.934	386.871	515.523	0.250	0.335	9.170	11.934	3.019
2022-09-17 16:00	7448412	8.404	-126.259	270.182	11.928	386.248	514.773	0.249	0.335	9.239	11.928	3.109
2022-09-17 16:15	7449312	8.417	-126.965	271.777	11.922	386.235	514.832	0.249	0.335	9.286	11.922	3.299
2022-09-17 16:30	7450212	8.406	-126.352	272.326	11.928	386.499	515.11	0.249	0.335	9.265	11.928	3.337
2022-09-17 16:45	7451112	8.414	-126.803	273.07	11.921	386.264	514.889	0.249	0.335	9.221	11.921	3.144
2022-09-17 17:00	7452012	8.397	-125.864	273.022	11.916	386.73	515.58	0.250	0.335	9.167	11.916	2.903
2022-09-17 17:15	7452912	8.401	-126.088	276.04	11.928	387.942	517.03	0.250	0.336	9.038	11.928	2.819
2022-09-17 17:30	7453812	8.394	-125.67	276.975	11.924	387.765	516.847	0.250	0.336	9.020	11.924	3.135
2022-09-17 17:45	7454712	8.390	-125.48	274.6	11.926	387.661	516.686	0.250	0.336	9.026	11.926	2.902
2022-09-17 18:00	7455612	8.383	-125.096	270.757	11.924	387.564	516.574	0.250	0.336	8.984	11.924	2.759
2022-09-17 18:15	7456512	8.381	-124.979	274.071	11.915	387.216	516.237	0.250	0.336	8.889	11.915	3.468
2022-09-17 18:30	7457412	8.375	-124.636	276.4	11.907	386.899	515.914	0.250	0.335	8.960	11.907	2.897
2022-09-17 18:45	7458312	8.375	-124.612	275.721	11.909	386.765	515.717	0.250	0.335	8.939	11.909	3.047
2022-09-17 19:00	7459212	8.372	-124.435	277.192	11.905	386.112	514.891	0.249	0.335	9.022	11.905	2.675
2022-09-17 19:15	7460112	8.400	-126.016	276.264	11.898	385.434	514.082	0.249	0.334	9.156	11.898	2.715
2022-09-17 19:30	7461012	8.384	-125.132	276.298	11.901	386.357	515.268	0.249	0.335	9.021	11.901	2.683
2022-09-17 19:45	7461912	8.381	-124.931	276.756	11.901	386.248	515.123	0.249	0.335	8.928	11.901	2.575
2022-09-17 20:00	7462812	8.355	-123.541	275.168	11.902	387.085	516.235	0.250	0.336	8.808	11.902	2.971
2022-09-17 20:15	7463712	8.361	-123.878	276.217	11.901	387.329	516.565	0.250	0.336	8.797	11.901	3.488
2022-09-17 20:30	7464612	8.363	-123.966	278.465	11.9	387.423	516.707	0.250	0.336	8.574	11.9	3.021
2022-09-17 20:45	7465512	8.350	-123.227	279.137	11.899	387.811	517.241	0.250	0.336	8.537	11.899	2.641
2022-09-17 21:00	7466412	8.345	-122.979	279.164	11.894	387.872	517.391	0.250	0.336	8.426	11.894	2.614
2022-09-17 21:15	7467312	8.342	-122.797	280.637	11.887	387.679	517.228	0.250	0.336	8.462	11.887	2.924
2022-09-17 21:30	7468212	8.332	-122.223	282.437	11.868	387.086	516.685	0.250	0.336	8.642	11.868	2.87
2022-09-17 21:45	7469112	8.337	-122.545	281.541	11.876	387.923	517.692	0.251	0.336	8.583	11.876	2.579
2022-09-17 22:00	7470012	8.320	-121.574	279.469	11.885	388.958	518.958	0.251	0.337	8.464	11.885	2.897
2022-09-17 22:15	7470912	8.328	-122.032	281.698	11.896	389.502	519.54	0.252	0.338	8.438	11.896	2.933
2022-09-17 22:30	7471812	8.329	-122.07	283.684	11.903	389.978	520.079	0.252	0.338	8.226	11.903	3.128
2022-09-17 22:45	7472712	8.304	-120.73	286.001	11.913	390.379	520.481	0.252	0.338	8.088	11.913	2.565

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-17 23:00	7473612	8.292	-120.044	286.876	11.918	390.512	520.589	0.252	0.338	7.913	11.918	2.361
2022-09-17 23:15	7474512	8.284	-119.607	289.411	11.923	390.681	520.748	0.252	0.338	8.026	11.923	2.04
2022-09-17 23:30	7475412	8.275	-119.135	288.779	11.928	390.948	521.033	0.252	0.339	7.863	11.928	2.179
2022-09-17 23:45	7476312	8.266	-118.635	287.737	11.935	391.229	521.324	0.252	0.339	7.752	11.935	2.048
2022-09-18 00:00	7477212	8.262	-118.392	285.424	11.942	391.516	521.61	0.253	0.339	7.676	11.942	2.069
2022-09-18 00:15	7478112	8.267	-118.706	287.663	11.945	391.636	521.726	0.253	0.339	7.557	11.945	13.137
2022-09-18 00:30	7479012	8.260	-118.284	288.035	11.947	391.753	521.853	0.253	0.339	7.538	11.947	2.5
2022-09-18 00:45	7479912	8.262	-118.432	288.96	11.95	391.788	521.867	0.253	0.339	7.448	11.95	3.016
2022-09-18 01:00	7480812	8.258	-118.22	283.913	11.953	391.644	521.637	0.253	0.339	7.420	11.953	2.757
2022-09-18 01:15	7481712	8.262	-118.418	287.654	11.951	391.686	521.711	0.253	0.339	7.507	11.951	2.371
2022-09-18 01:30	7482612	8.268	-118.744	287.537	11.952	391.902	521.989	0.253	0.339	7.449	11.952	2.298
2022-09-18 01:45	7483512	8.253	-117.912	284.914	11.972	392.233	522.171	0.253	0.339	7.404	11.972	2.252
2022-09-18 02:00	7484412	8.233	-116.808	282.838	11.963	392.662	522.853	0.253	0.340	7.353	11.963	3.036
2022-09-18 02:15	7485312	8.252	-117.888	284.976	11.956	392.526	522.763	0.253	0.340	7.426	11.956	2.898
2022-09-18 02:30	7486212	8.266	-118.668	284.437	11.955	392.586	522.868	0.253	0.340	7.491	11.955	3.103
2022-09-18 02:45	7487112	8.263	-118.487	284.914	11.951	392.707	523.083	0.253	0.340	7.749	11.951	2.454
2022-09-18 03:00	7488012	8.259	-118.265	284.716	11.949	392.599	522.962	0.253	0.340	7.661	11.949	2.45
2022-09-18 03:15	7488912	8.260	-118.31	286.893	11.941	392.587	523.05	0.253	0.340	7.596	11.941	2.656
2022-09-18 03:30	7489812	8.265	-118.566	287.673	11.94	392.672	523.173	0.253	0.340	7.480	11.94	2.253
2022-09-18 03:45	7490712	8.250	-117.738	287.284	11.938	392.661	523.183	0.253	0.340	7.370	11.938	2.189
2022-09-18 04:00	7491612	8.235	-116.956	285.689	11.943	392.966	523.531	0.254	0.340	7.260	11.943	2.429
2022-09-18 04:15	7492512	8.222	-116.193	287.84	11.946	393.357	524.006	0.254	0.341	7.224	11.946	2.246
2022-09-18 04:30	7493412	8.220	-116.098	288.643	11.934	393.143	523.886	0.254	0.341	7.119	11.934	2.155
2022-09-18 04:45	7494312	8.233	-116.804	288.51	11.927	393.161	523.995	0.254	0.341	7.113	11.927	2.167
2022-09-18 05:00	7495212	8.220	-116.081	286.743	11.933	393.111	523.86	0.254	0.341	7.224	11.933	2.24
2022-09-18 05:15	7496112	8.220	-116.072	288.8	11.928	393.136	523.956	0.254	0.341	7.173	11.928	2.247
2022-09-18 05:30	7497012	8.217	-115.936	289.68	11.916	393.094	524.053	0.254	0.341	7.130	11.916	2.315
2022-09-18 05:45	7497912	8.231	-116.715	288.707	11.908	393.064	524.128	0.254	0.341	7.074	11.908	2.75
2022-09-18 06:00	7498812	8.218	-115.988	285.041	11.887	392.853	524.12	0.254	0.341	7.025	11.887	2.711
2022-09-18 06:15	7499712	8.250	-117.707	286.216	11.848	392.157	523.713	0.254	0.340	7.345	11.848	2.685
2022-09-18 06:30	7500612	8.237	-117.023	288.069	11.848	392.422	524.066	0.254	0.341	7.345	11.848	2.359
2022-09-18 06:45	7501512	8.230	-116.613	289.94	11.835	392.388	524.199	0.254	0.341	7.228	11.835	2.168
2022-09-18 07:00	7502412	8.217	-115.905	288.271	11.82	392.29	524.263	0.254	0.341	7.119	11.82	2.461
2022-09-18 07:15	7503312	8.230	-116.606	288.46	11.814	392.325	524.394	0.254	0.341	7.060	11.814	2.262
2022-09-18 07:30	7504212	8.214	-115.693	286.884	11.791	392.119	524.424	0.254	0.341	6.993	11.791	2.235
2022-09-18 07:45	7505112	8.212	-115.609	286.297	11.776	392.123	524.633	0.254	0.341	7.011	11.776	2.379
2022-09-18 08:00	7506012	8.193	-114.536	283.777	11.735	391.714	524.634	0.254	0.341	6.851	11.735	2.212
2022-09-18 08:15	7506912	8.207	-115.299	284.297	11.713	391.397	524.514	0.254	0.341	6.967	11.713	2.454
2022-09-18 08:30	7507812	8.214	-115.685	286.183	11.693	391.202	524.511	0.254	0.341	7.091	11.693	2.152
2022-09-18 08:45	7508712	8.214	-115.693	286.254	11.683	391.097	524.51	0.254	0.341	7.080	11.683	2.203
2022-09-18 09:00	7509612	8.202	-115.027	285.148	11.679	391.083	524.54	0.254	0.341	6.962	11.679	2.175
2022-09-18 09:15	7510512	8.218	-115.86	287.036	11.676	391.087	524.593	0.254	0.341	6.803	11.676	2.171
2022-09-18 09:30	7511412	8.210	-115.438	287.413	11.662	391.039	524.714	0.254	0.341	6.810	11.662	2.385
2022-09-18 09:45	7512312	8.222	-116.103	286.617	11.656	390.831	524.52	0.254	0.341	6.821	11.656	2.919
2022-09-18 10:00	7513212	8.198	-114.768	284.642	11.66	390.88	524.524	0.254	0.341	6.970	11.66	2.288
2022-09-18 10:15	7514112	8.206	-115.199	285.501	11.667	390.859	524.41	0.254	0.341	7.131	11.667	2.279
2022-09-18 10:30	7515012	8.212	-115.557	286.953	11.664	390.776	524.335	0.254	0.341	7.169	11.664	2.467
2022-09-18 10:45	7515912	8.229	-116.475	286.45	11.668	390.654	524.111	0.254	0.341	7.330	11.668	2.301

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-18 11:00	7516812	8.230	-116.563	284.828	11.689	390.73	523.93	0.254	0.341	7.387	11.689	2.447
2022-09-18 11:15	7517712	8.228	-116.434	286.45	11.712	390.822	523.753	0.254	0.340	7.640	11.712	2.758
2022-09-18 11:30	7518612	8.267	-118.585	284.137	11.727	390.999	523.78	0.254	0.340	7.879	11.727	2.346
2022-09-18 11:45	7519512	8.267	-118.606	282.883	11.759	391.285	523.737	0.254	0.340	7.867	11.759	2.169
2022-09-18 12:00	7520412	8.259	-118.196	281.538	11.788	391.348	523.438	0.253	0.340	7.970	11.788	2.468
2022-09-18 12:15	7521312	8.295	-120.201	282.654	11.801	391.618	523.622	0.254	0.340	8.152	11.801	2.833
2022-09-18 12:30	7522212	8.277	-119.193	284.526	11.819	391.872	523.728	0.254	0.340	8.087	11.819	2.905
2022-09-18 12:45	7523112	8.274	-119.054	286.583	11.832	392.039	523.773	0.254	0.340	7.894	11.832	2.3
2022-09-18 13:00	7524012	8.266	-118.587	285.11	11.849	392.279	523.864	0.254	0.341	7.819	11.849	2.355
2022-09-18 13:15	7524912	8.313	-121.212	285.947	11.875	392.301	523.544	0.254	0.340	8.240	11.875	2.775
2022-09-18 13:30	7525812	8.314	-121.255	284.344	11.891	392.447	523.533	0.254	0.340	8.394	11.891	3.196
2022-09-18 13:45	7526712	8.325	-121.889	283.293	11.917	392.7	523.524	0.254	0.340	8.373	11.917	3.285
2022-09-18 14:00	7527612	8.312	-121.164	282.828	11.932	393.092	523.847	0.254	0.341	8.399	11.932	3.731
2022-09-18 14:15	7528512	8.321	-121.663	283.345	11.954	393.468	524.047	0.254	0.341	8.513	11.954	3.375
2022-09-18 14:30	7529412	8.322	-121.756	285.362	11.964	393.52	523.982	0.254	0.341	8.505	11.964	3.375
2022-09-18 14:45	7530312	8.329	-122.128	286.175	11.963	393.562	524.052	0.254	0.341	8.573	11.963	3.713
2022-09-18 15:00	7531212	8.322	-121.72	285.179	11.967	393.554	523.995	0.254	0.341	8.575	11.967	4.823
2022-09-18 15:15	7532112	8.324	-121.827	287.458	11.983	393.682	523.951	0.254	0.341	8.576	11.983	4.114
2022-09-18 15:30	7533012	8.324	-121.887	287.065	12.02	393.767	523.572	0.254	0.340	8.652	12.02	4.096
2022-09-18 15:45	7533912	8.322	-121.758	286.195	12.014	393.488	523.274	0.253	0.340	8.651	12.014	4.619
2022-09-18 16:00	7534812	8.333	-122.342	284.325	12.016	393.544	523.331	0.253	0.340	8.702	12.016	5.366
2022-09-18 16:15	7535712	8.330	-122.18	285.486	12.029	393.346	522.892	0.253	0.340	8.726	12.029	5.419
2022-09-18 16:30	7536612	8.329	-122.159	287.141	12.022	393.156	522.735	0.253	0.340	8.735	12.022	5.569
2022-09-18 16:45	7537512	8.324	-121.822	287.842	11.956	391.478	521.372	0.252	0.339	8.662	11.956	9.389
2022-09-18 17:00	7538412	8.288	-119.839	287.346	11.858	389.189	519.62	0.252	0.338	8.456	11.858	12.393
2022-09-18 17:15	7539312	8.264	-118.492	289.437	11.819	388.902	519.747	0.252	0.338	8.343	11.819	13.311
2022-09-18 17:30	7540212	8.257	-118.077	288.028	11.787	388.555	519.717	0.252	0.338	8.296	11.787	13.246
2022-09-18 17:45	7541112	8.249	-117.621	287.599	11.766	388.338	519.706	0.252	0.338	8.250	11.766	13.136
2022-09-18 18:00	7542012	8.227	-116.401	284.909	11.758	388.745	520.356	0.252	0.338	8.147	11.758	13.135
2022-09-18 18:15	7542912	8.243	-117.319	287.587	11.764	388.686	520.194	0.252	0.338	8.149	11.764	13.914
2022-09-18 18:30	7543812	8.232	-116.67	289.003	11.772	388.982	520.488	0.252	0.338	8.206	11.772	11.409
2022-09-18 18:45	7544712	8.240	-117.14	289.764	11.779	388.948	520.346	0.252	0.338	8.141	11.779	13.319
2022-09-18 19:00	7545612	8.248	-117.583	289.246	11.795	388.71	519.819	0.252	0.338	8.178	11.795	12.776
2022-09-18 19:15	7546512	8.249	-117.633	288.858	11.827	389.219	520.072	0.252	0.338	8.361	11.827	11.068
2022-09-18 19:30	7547412	8.224	-116.282	289.385	11.831	389.436	520.313	0.252	0.338	8.067	11.831	8.212
2022-09-18 19:45	7548312	8.217	-115.886	288.052	11.834	389.733	520.667	0.252	0.338	7.984	11.834	7.834
2022-09-18 20:00	7549212	8.177	-113.685	285.012	11.835	390.299	521.405	0.252	0.339	7.988	11.835	7.691
2022-09-18 20:15	7550112	8.205	-115.228	286.941	11.833	390.26	521.384	0.252	0.339	7.791	11.833	6.412
2022-09-18 20:30	7551012	8.216	-115.826	287.358	11.828	390.23	521.412	0.252	0.339	8.365	11.828	9.954
2022-09-18 20:45	7551912	8.252	-117.807	286.488	11.853	390.618	521.594	0.253	0.339	8.410	11.853	8.263
2022-09-18 21:00	7552812	8.265	-118.542	286.409	11.863	390.702	521.572	0.253	0.339	8.484	11.863	8.047
2022-09-18 21:15	7553712	8.293	-120.065	285.324	11.846	390.597	521.652	0.253	0.339	8.590	11.846	7.532
2022-09-18 21:30	7554612	8.290	-119.894	283.822	11.834	390.51	521.701	0.253	0.339	8.613	11.834	7.701
2022-09-18 21:45	7555513	8.303	-120.633	282.895	11.835	390.609	521.828	0.253	0.339	8.597	11.835	7.291
2022-09-18 22:00	7556413	8.284	-119.586	283.343	11.834	390.771	522.051	0.253	0.339	8.437	11.834	6.951
2022-09-18 22:15	7557313	8.271	-118.861	283.267	11.836	391.096	522.465	0.253	0.340	8.340	11.836	6.289
2022-09-18 22:30	7558213	8.257	-118.084	284.073	11.837	391.217	522.614	0.253	0.340	8.085	11.837	5.513
2022-09-18 22:45	7559113	8.229	-116.56	286.242	11.837	391.34	522.775	0.253	0.340	7.790	11.837	4.768

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-18 23:00	7560013	8.212	-115.604	287.458	11.837	391.237	522.639	0.253	0.340	7.557	11.837	4.963
2022-09-18 23:15	7560913	8.204	-115.204	288.665	11.834	391.249	522.696	0.253	0.340	7.564	11.834	3.961
2022-09-18 23:30	7561813	8.183	-114.024	287.623	11.827	391.293	522.847	0.253	0.340	7.494	11.827	4.227
2022-09-18 23:45	7562713	8.198	-114.849	285.978	11.817	391.23	522.894	0.253	0.340	7.392	11.817	4.353
2022-09-19 00:00	7563613	8.203	-115.12	283.186	11.807	391.236	523.039	0.253	0.340	7.275	11.807	4.477
2022-09-19 00:15	7564513	8.196	-114.744	284.991	11.796	391.155	523.07	0.253	0.340	7.319	11.796	4.284
2022-09-19 00:30	7565413	8.183	-114.019	287.918	11.786	391.112	523.153	0.253	0.340	7.140	11.786	4.51
2022-09-19 00:45	7566313	8.174	-113.516	290.727	11.754	390.565	522.845	0.253	0.340	6.990	11.754	3.618
2022-09-19 01:00	7567213	8.189	-114.317	289.969	11.737	390.534	523.032	0.253	0.340	6.892	11.737	4.474
2022-09-19 01:15	7568113	8.187	-114.174	290.469	11.722	390.42	523.077	0.253	0.340	7.057	11.722	4.563
2022-09-19 01:30	7569013	8.194	-114.596	290.391	11.707	390.281	523.086	0.253	0.340	7.168	11.707	4.19
2022-09-19 01:45	7569913	8.192	-114.467	290.81	11.663	389.41	522.52	0.253	0.340	7.263	11.663	6.094
2022-09-19 02:00	7570813	8.204	-115.077	286.063	11.618	389.159	522.784	0.253	0.340	7.526	11.618	5.675
2022-09-19 02:15	7571713	8.217	-115.786	287.809	11.598	389.016	522.862	0.253	0.340	7.652	11.598	5.606
2022-09-19 02:30	7572613	8.253	-117.788	289.129	11.56	388.426	522.579	0.253	0.340	7.657	11.56	6.63
2022-09-19 02:45	7573513	8.244	-117.28	289.201	11.551	388.485	522.775	0.253	0.340	7.716	11.551	6.452
2022-09-19 03:00	7574413	8.226	-116.241	289.196	11.515	387.93	522.512	0.253	0.340	7.672	11.515	6.643
2022-09-19 03:15	7575313	8.253	-117.731	290.77	11.489	387.565	522.371	0.253	0.340	7.742	11.489	5.663
2022-09-19 03:30	7576213	8.252	-117.638	289.001	11.459	387.275	522.384	0.253	0.340	7.890	11.459	6.867
2022-09-19 03:45	7577113	8.254	-117.769	287.57	11.46	387.179	522.234	0.253	0.339	7.898	11.46	5.999
2022-09-19 04:00	7578013	8.255	-117.829	284.554	11.418	386.81	522.302	0.253	0.339	8.001	11.418	6.006
2022-09-19 04:15	7578913	8.272	-118.737	286.435	11.397	386.944	522.774	0.253	0.340	7.984	11.397	6.884
2022-09-19 04:30	7579813	8.267	-118.43	288.488	11.369	386.398	522.41	0.253	0.340	7.952	11.369	5.903
2022-09-19 04:45	7580713	8.263	-118.22	289.535	11.331	386.041	522.435	0.253	0.340	7.991	11.331	6.662
2022-09-19 05:00	7581613	8.244	-117.145	289.222	11.316	385.797	522.305	0.253	0.339	7.909	11.316	6.939
2022-09-19 05:15	7582513	8.250	-117.478	290.581	11.305	385.603	522.191	0.253	0.339	7.860	11.305	7.414
2022-09-19 05:30	7583413	8.262	-118.139	289.141	11.289	385.408	522.146	0.253	0.339	7.950	11.289	7.19
2022-09-19 05:45	7584313	8.262	-118.129	287.813	11.264	384.979	521.901	0.252	0.339	7.922	11.264	6.985
2022-09-19 06:00	7585213	8.267	-118.377	283.918	11.233	384.91	522.228	0.253	0.339	8.097	11.233	6.722
2022-09-19 06:15	7586113	8.278	-118.976	286.199	11.22	384.699	522.116	0.253	0.339	8.190	11.22	7.462
2022-09-19 06:30	7587013	8.276	-118.89	289.222	11.198	384.545	522.215	0.253	0.339	8.210	11.198	7.341
2022-09-19 06:45	7587913	8.270	-118.549	291.008	11.158	384.136	522.193	0.253	0.339	8.110	11.158	7.92
2022-09-19 07:00	7588813	8.263	-118.098	291.433	11.106	383.444	521.956	0.252	0.339	8.097	11.106	6.952
2022-09-19 07:15	7589713	8.263	-118.113	291.96	11.115	383.478	521.885	0.252	0.339	8.094	11.115	6.848
2022-09-19 07:30	7590613	8.253	-117.55	291.177	11.108	383.432	521.913	0.252	0.339	7.952	11.108	6.985
2022-09-19 07:45	7591513	8.268	-118.394	289.728	11.101	383.329	521.876	0.252	0.339	8.042	11.101	7.222
2022-09-19 08:00	7592413	8.260	-117.962	286.292	11.101	383.56	522.188	0.253	0.339	8.023	11.101	7.538
2022-09-19 08:15	7593313	8.263	-118.124	287.992	11.105	383.753	522.395	0.253	0.340	7.951	11.105	6.642
2022-09-19 08:30	7594213	8.256	-117.748	290.388	11.108	383.755	522.349	0.253	0.340	7.822	11.108	6.911
2022-09-19 08:45	7595113	8.249	-117.335	291.263	11.108	383.774	522.377	0.253	0.340	7.832	11.108	7.287
2022-09-19 09:00	7596013	8.246	-117.188	290.438	11.086	383.157	521.834	0.252	0.339	8.096	11.086	7.811
2022-09-19 09:15	7596913	8.275	-118.778	290.724	11.059	382.812	521.733	0.252	0.339	8.285	11.059	7.488
2022-09-19 09:30	7597813	8.278	-118.918	288.25	11.055	382.719	521.665	0.252	0.339	8.373	11.055	8.747
2022-09-19 09:45	7598713	8.279	-119.009	286.8	11.057	382.645	521.534	0.252	0.339	8.459	11.057	7.92
2022-09-19 10:00	7599613	8.305	-120.447	282.795	11.082	382.893	521.539	0.252	0.339	8.530	11.082	8.651
2022-09-19 10:15	7600513	8.311	-120.728	282.516	11.092	383.03	521.591	0.252	0.339	8.630	11.092	8.545
2022-09-19 10:30	7601413	8.318	-121.15	282.253	11.139	383.279	521.293	0.252	0.339	8.682	11.139	8.429
2022-09-19 10:45	7602313	8.323	-121.424	282.461	11.162	383.609	521.428	0.252	0.339	8.773	11.162	8.393

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-19 11:00	7603213	8.325	-121.582	281.598	11.2	383.78	521.147	0.252	0.339	8.776	11.2	9.232
2022-09-19 11:15	7604113	8.336	-122.209	280.339	11.223	383.957	521.077	0.252	0.339	8.841	11.223	8.436
2022-09-19 11:30	7605013	8.341	-122.452	276.505	11.241	384.124	521.06	0.252	0.339	8.886	11.241	8.474
2022-09-19 11:45	7605913	8.346	-122.755	275.516	11.25	384.155	520.974	0.252	0.339	8.910	11.25	8.146
2022-09-19 12:00	7606813	8.335	-122.123	271.281	11.267	384.408	521.095	0.252	0.339	8.999	11.267	8.413
2022-09-19 12:15	7607713	8.348	-122.876	271.181	11.303	384.765	521.095	0.252	0.339	9.073	11.303	8.595
2022-09-19 12:30	7608613	8.346	-122.817	270.583	11.373	385.338	520.919	0.252	0.339	9.153	11.373	8.038
2022-09-19 12:45	7609513	8.362	-123.715	269.2	11.409	385.711	520.944	0.252	0.339	9.112	11.409	19.72
2022-09-19 13:00	7610413	8.343	-122.685	267.603	11.449	386.117	520.955	0.252	0.339	9.077	11.449	8.079
2022-09-19 13:15	7611313	8.357	-123.491	266.818	11.556	387.109	520.854	0.252	0.339	9.114	11.556	7.859
2022-09-19 13:30	7612213	8.356	-123.479	264.579	11.691	388.436	520.83	0.252	0.339	9.192	11.691	7.83
2022-09-19 13:45	7613113	8.359	-123.72	262.007	11.859	389.972	520.653	0.252	0.338	9.212	11.859	8.235
2022-09-19 14:00	7614013	8.319	-121.558	261.525	11.98	391.523	521.112	0.252	0.339	9.163	11.98	9.084
2022-09-19 14:15	7614913	8.327	-122.108	266.239	12.175	393.479	521.135	0.252	0.339	9.072	12.175	9.395
2022-09-19 14:30	7615813	8.328	-122.18	262.856	12.228	394.149	521.318	0.253	0.339	8.989	12.228	8.351
2022-09-19 14:45	7616713	8.355	-123.687	258.607	12.296	394.638	521.08	0.252	0.339	9.056	12.296	9.466
2022-09-19 15:00	7617613	8.323	-121.944	262.76	12.391	395.454	520.907	0.252	0.339	9.245	12.391	8.257
2022-09-19 15:15	7618513	8.338	-122.869	260.331	12.51	396.709	520.996	0.253	0.339	9.184	12.51	11.213
2022-09-19 15:30	7619413	8.348	-123.475	257.05	12.667	398.184	520.877	0.253	0.339	9.370	12.667	8.788
2022-09-19 15:45	7620313	8.336	-122.831	259.074	12.692	398.465	520.932	0.253	0.339	9.280	12.692	9.481
2022-09-19 16:00	7621213	8.345	-123.363	253.453	12.765	399.18	520.912	0.253	0.339	9.335	12.765	8.827
2022-09-19 16:15	7622113	8.369	-124.7	256.428	12.822	399.705	520.862	0.253	0.339	9.446	12.822	8.977
2022-09-19 16:30	7623013	8.385	-125.597	260.963	12.871	399.928	520.515	0.252	0.338	9.682	12.871	8.686
2022-09-19 16:45	7623913	8.380	-125.37	259.504	12.919	400.522	520.66	0.252	0.338	9.673	12.919	8.356
2022-09-19 17:00	7624813	8.342	-123.253	260.514	12.943	400.953	520.913	0.253	0.339	9.426	12.943	8.015
2022-09-19 17:15	7625713	8.364	-124.474	261.363	12.956	401.061	520.881	0.253	0.339	9.480	12.956	8.351
2022-09-19 17:30	7626613	8.361	-124.314	256.798	12.962	400.843	520.525	0.252	0.338	9.600	12.962	8.434
2022-09-19 17:45	7627513	8.380	-125.351	255.183	12.941	400.767	520.693	0.253	0.338	9.529	12.941	8.18
2022-09-19 18:00	7628413	8.344	-123.327	257.124	12.872	400.32	521.012	0.253	0.339	9.354	12.872	8.374
2022-09-19 18:15	7629313	8.341	-123.148	262.658	12.823	399.948	521.162	0.253	0.339	9.205	12.823	8.771
2022-09-19 18:30	7630213	8.317	-121.841	265.557	12.805	399.939	521.379	0.253	0.339	9.004	12.805	6.412
2022-09-19 18:45	7631113	8.296	-120.623	268.516	12.785	399.744	521.393	0.253	0.339	8.748	12.785	5.71
2022-09-19 19:00	7632013	8.287	-120.142	270.867	12.784	399.915	521.628	0.253	0.339	8.567	12.784	6.617
2022-09-19 19:15	7632913	8.357	-124.006	270.082	12.743	398.831	520.741	0.252	0.338	8.850	12.743	6.931
2022-09-19 19:30	7633813	8.355	-123.887	266.155	12.712	398.557	520.79	0.252	0.339	9.292	12.712	7.248
2022-09-19 19:45	7634713	8.342	-123.146	266.067	12.697	398.594	521.031	0.253	0.339	9.145	12.697	5.447
2022-09-19 20:00	7635613	8.308	-121.269	267.679	12.675	398.561	521.272	0.253	0.339	8.941	12.675	6.121
2022-09-19 20:15	7636513	8.313	-121.5	270.063	12.624	397.761	520.885	0.253	0.339	8.856	12.624	4.963
2022-09-19 20:30	7637413	8.310	-121.365	272.195	12.603	397.889	521.334	0.253	0.339	8.806	12.603	5.048
2022-09-19 20:45	7638313	8.290	-120.237	275.094	12.569	397.767	521.616	0.253	0.339	8.606	12.569	4.669
2022-09-19 21:00	7639213	8.271	-119.143	276.293	12.548	397.867	522.025	0.253	0.339	8.333	12.548	5.81
2022-09-19 21:15	7640113	8.254	-118.222	279.724	12.537	397.787	522.064	0.253	0.339	8.125	12.537	5.617
2022-09-19 21:30	7641013	8.258	-118.411	279.931	12.491	397.337	522.068	0.253	0.339	7.966	12.491	4.864
2022-09-19 21:45	7641913	8.253	-118.117	276.269	12.45	396.979	522.137	0.253	0.339	7.936	12.45	4.833
2022-09-19 22:00	7642813	8.230	-116.856	273.968	12.372	396.293	522.265	0.253	0.339	7.992	12.372	4.737
2022-09-19 22:15	7643713	8.241	-117.395	275.938	12.291	395.357	522.088	0.253	0.339	7.955	12.291	4.736
2022-09-19 22:30	7644613	8.249	-117.822	278.758	12.24	394.742	521.949	0.253	0.339	7.957	12.24	6.189
2022-09-19 22:45	7645513	8.245	-117.619	279.981	12.224	394.554	521.914	0.253	0.339	7.935	12.224	4.729

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-19 23:00	7646413	8.256	-118.16	278.858	12.162	394.073	522.098	0.253	0.339	7.988	12.162	4.856
2022-09-19 23:15	7647313	8.255	-118.124	279.848	12.135	393.957	522.297	0.253	0.339	7.910	12.135	4.82
2022-09-19 23:30	7648213	8.245	-117.533	281.426	12.122	393.85	522.323	0.253	0.340	7.837	12.122	4.033
2022-09-19 23:45	7649113	8.227	-116.518	282.461	12.044	393.277	522.597	0.253	0.340	7.743	12.044	4.447
2022-09-20 00:00	7650013	8.213	-115.738	278.401	11.974	392.482	522.477	0.253	0.340	7.651	11.974	4.445
2022-09-20 00:15	7650913	8.239	-117.13	279.29	11.956	392.047	522.135	0.253	0.339	7.638	11.956	3.862
2022-09-20 00:30	7651813	8.232	-116.723	282.103	11.886	391.171	521.896	0.253	0.339	7.596	11.886	4.212
2022-09-20 00:45	7652713	8.233	-116.806	282.952	11.845	390.777	521.913	0.253	0.339	7.606	11.845	3.768
2022-09-20 01:00	7653613	8.234	-116.785	283.67	11.761	390.305	522.397	0.253	0.340	7.745	11.761	4.655
2022-09-20 01:15	7654513	8.243	-117.238	285.258	11.665	389.475	522.573	0.253	0.340	7.883	11.665	6.185
2022-09-20 01:30	7655413	8.235	-116.811	284.077	11.641	389.237	522.575	0.253	0.340	7.861	11.641	6.205
2022-09-20 01:45	7656313	8.236	-116.844	283.379	11.612	388.686	522.231	0.253	0.339	7.878	11.612	4.729
2022-09-20 02:00	7657213	8.229	-116.405	281.195	11.522	388.021	522.532	0.253	0.340	7.855	11.522	4.659
2022-09-20 02:15	7658113	8.236	-116.796	283.67	11.48	387.253	522.061	0.253	0.339	7.749	11.48	5.013
2022-09-20 02:30	7659013	8.227	-116.298	285.122	11.419	386.542	521.93	0.253	0.339	7.803	11.419	5.285
2022-09-20 02:45	7659913	8.229	-116.327	286.295	11.329	385.728	522.037	0.253	0.339	7.894	11.329	5.963
2022-09-20 03:00	7660813	8.232	-116.475	285.494	11.28	385.451	522.326	0.253	0.340	7.879	11.28	6.053
2022-09-20 03:15	7661713	8.226	-116.16	287.93	11.239	385.029	522.309	0.253	0.340	7.730	11.239	6.301
2022-09-20 03:30	7662613	8.228	-116.231	287.947	11.196	384.637	522.364	0.253	0.340	7.722	11.196	5.209
2022-09-20 03:45	7663513	8.201	-114.751	288.61	11.185	384.509	522.338	0.253	0.340	7.611	11.185	4.905
2022-09-20 04:00	7664413	8.193	-114.264	284.173	11.114	383.799	522.332	0.253	0.340	7.516	11.114	7.336
2022-09-20 04:15	7665313	8.191	-114.188	285.796	11.112	383.902	522.495	0.253	0.340	7.685	11.112	6.18
2022-09-20 04:30	7666213	8.191	-114.155	287.086	11.1	383.823	522.558	0.253	0.340	7.644	11.1	5.744
2022-09-20 04:45	7667113	8.211	-115.249	288.402	11.077	383.836	522.888	0.253	0.340	7.604	11.077	5.365
2022-09-20 05:00	7668013	8.184	-113.785	288.266	11.058	383.323	522.45	0.253	0.340	7.547	11.058	4.894
2022-09-20 05:15	7668913	8.189	-114.019	291.325	11.045	383.076	522.288	0.253	0.339	7.358	11.045	5.717
2022-09-20 05:30	7669813	8.195	-114.341	291.356	11.01	382.645	522.173	0.252	0.339	7.480	11.01	5.912
2022-09-20 05:45	7670713	8.181	-113.571	291.428	10.982	382.374	522.191	0.252	0.339	7.532	10.982	5.254
2022-09-20 06:00	7671613	8.208	-115.011	286.34	10.919	381.694	522.119	0.252	0.339	7.607	10.919	6.511
2022-09-20 06:15	7672513	8.210	-115.116	287.708	10.893	381.286	521.915	0.252	0.339	7.691	10.893	6.919
2022-09-20 06:30	7673413	8.197	-114.419	288.462	10.88	381.449	522.318	0.252	0.340	7.736	10.88	5.917
2022-09-20 06:45	7674313	8.185	-113.764	289.587	10.877	381.532	522.466	0.253	0.340	7.588	10.877	4.944
2022-09-20 07:00	7675213	8.175	-113.194	289.039	10.85	381.135	522.287	0.252	0.339	7.447	10.85	5.738
2022-09-20 07:15	7676113	8.184	-113.661	291.34	10.846	381.047	522.233	0.252	0.339	7.317	10.846	6.654
2022-09-20 07:30	7677013	8.189	-113.924	290.968	10.822	380.813	522.235	0.252	0.339	7.394	10.822	5.135
2022-09-20 07:45	7677913	8.202	-114.627	288.521	10.787	380.568	522.372	0.252	0.340	7.382	10.787	5.441
2022-09-20 08:00	7678813	8.185	-113.678	286.531	10.761	380.41	522.515	0.253	0.340	7.319	10.761	4.312
2022-09-20 08:15	7679713	8.179	-113.373	289.191	10.741	379.95	522.157	0.252	0.339	7.238	10.741	5.002
2022-09-20 08:30	7680613	8.187	-113.761	289.876	10.665	378.982	521.873	0.252	0.339	7.441	10.665	5.766
2022-09-20 08:45	7681513	8.201	-114.524	290.515	10.631	378.829	522.122	0.252	0.339	7.560	10.631	5.316
2022-09-20 09:00	7682413	8.192	-114.028	288.15	10.597	378.416	522.019	0.252	0.339	7.604	10.597	5.253
2022-09-20 09:15	7683313	8.205	-114.732	289.864	10.583	378.227	521.955	0.252	0.339	7.486	10.583	5.337
2022-09-20 09:30	7684213	8.203	-114.605	289.973	10.573	378.056	521.863	0.252	0.339	7.721	10.573	5.594
2022-09-20 09:45	7685113	8.199	-114.384	289.764	10.562	377.976	521.903	0.252	0.339	7.666	10.562	4.859
2022-09-20 10:00	7686013	8.200	-114.417	287.041	10.538	377.998	522.257	0.252	0.339	7.516	10.538	4.208
2022-09-20 10:15	7686913	8.206	-114.732	288.128	10.528	377.86	522.21	0.252	0.339	7.440	10.528	4.719
2022-09-20 10:30	7687813	8.218	-115.438	289.358	10.512	377.708	522.219	0.252	0.339	7.623	10.512	5.43
2022-09-20 10:45	7688713	8.193	-114.045	290.536	10.509	377.786	522.366	0.252	0.340	7.712	10.509	4.481

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-20 11:00	7689613	8.186	-113.671	290.078	10.502	377.623	522.236	0.252	0.339	7.658	10.502	4.922
2022-09-20 11:15	7690513	8.179	-113.246	291.199	10.513	377.816	522.358	0.252	0.340	7.436	10.513	3.7
2022-09-20 11:30	7691413	8.162	-112.329	290.961	10.522	378.008	522.495	0.252	0.340	7.263	10.522	3.321
2022-09-20 11:45	7692313	8.139	-111.074	289.482	10.532	378.25	522.691	0.252	0.340	7.065	10.532	2.953
2022-09-20 12:00	7693214	8.147	-111.554	287.577	10.538	378.436	522.867	0.253	0.340	6.928	10.538	3.448
2022-09-20 12:15	7694114	8.145	-111.425	287.964	10.549	378.364	522.613	0.252	0.340	6.894	10.549	3.986
2022-09-20 12:30	7695014	8.181	-113.373	288.426	10.554	378.252	522.388	0.252	0.340	6.866	10.554	5.366
2022-09-20 12:45	7695914	8.183	-113.521	288.648	10.574	378.459	522.401	0.252	0.340	7.026	10.574	5.101
2022-09-20 13:00	7696814	8.165	-112.526	288.016	10.597	378.717	522.436	0.252	0.340	7.112	10.597	4.12
2022-09-20 13:15	7697714	8.169	-112.793	288.965	10.643	379.059	522.275	0.252	0.339	7.208	10.643	3.853
2022-09-20 13:30	7698614	8.160	-112.338	288.417	10.732	380.035	522.401	0.252	0.340	7.112	10.732	3.706
2022-09-20 13:45	7699514	8.158	-112.252	287.353	10.826	381.156	522.645	0.253	0.340	7.056	10.826	3.578
2022-09-20 14:00	7700414	8.150	-111.816	285.503	10.908	381.846	522.473	0.253	0.340	7.019	10.908	3.682
2022-09-20 14:15	7701314	8.184	-113.723	286.733	10.975	382.322	522.207	0.252	0.339	7.074	10.975	3.042
2022-09-20 14:30	7702214	8.183	-113.707	287.279	11.051	383.138	522.294	0.253	0.339	7.021	11.051	3.279
2022-09-20 14:45	7703114	8.235	-116.587	284.406	11.152	383.822	521.847	0.252	0.339	7.300	11.152	4.407
2022-09-20 15:00	7704014	8.225	-116.086	284.657	11.221	384.392	521.685	0.252	0.339	7.630	11.221	4.747
2022-09-20 15:15	7704914	8.262	-118.146	286.004	11.294	384.988	521.518	0.252	0.339	8.160	11.294	6.024
2022-09-20 15:30	7705814	8.253	-117.636	285.794	11.317	385.576	521.998	0.253	0.339	8.163	11.317	4.063
2022-09-20 15:45	7706714	8.248	-117.395	284.049	11.34	385.892	522.12	0.253	0.339	7.986	11.34	4.551
2022-09-20 16:00	7707614	8.256	-117.855	280.666	11.341	385.479	521.539	0.252	0.339	8.046	11.341	4.149
2022-09-20 16:15	7708514	8.256	-117.822	283.341	11.302	384.611	520.899	0.252	0.339	8.126	11.302	5.435
2022-09-20 16:30	7709414	8.249	-117.455	284.588	11.299	384.618	520.946	0.252	0.339	8.176	11.299	4.094
2022-09-20 16:45	7710314	8.249	-117.464	285.341	11.322	384.676	520.717	0.252	0.338	8.227	11.322	3.781
2022-09-20 17:00	7711214	8.264	-118.256	285.405	11.34	385.216	521.198	0.252	0.339	8.283	11.34	5.5
2022-09-20 17:15	7712114	8.273	-118.752	286.512	11.32	385.524	521.884	0.252	0.339	8.386	11.32	5.201
2022-09-20 17:30	7713014	8.280	-119.157	286.071	11.313	385.407	521.82	0.252	0.339	8.415	11.313	4.367
2022-09-20 17:45	7713914	8.283	-119.321	285.887	11.281	385.066	521.798	0.252	0.339	8.472	11.281	4.954
2022-09-20 18:00	7714814	8.270	-118.539	283.779	11.224	384.292	521.513	0.252	0.339	8.548	11.224	4.893
2022-09-20 18:15	7715714	8.287	-119.469	284.948	11.163	383.542	521.325	0.252	0.339	8.473	11.163	5.354
2022-09-20 18:30	7716614	8.283	-119.228	286.807	11.151	383.39	521.272	0.252	0.339	8.529	11.151	4.282
2022-09-20 18:45	7717514	8.276	-118.868	288.662	11.124	383.206	521.396	0.252	0.339	8.468	11.124	5.338
2022-09-20 19:00	7718414	8.261	-117.996	288.421	11.124	383.536	521.835	0.252	0.339	8.383	11.124	4.873
2022-09-20 19:15	7719314	8.269	-118.439	290.574	11.111	383.666	522.196	0.253	0.339	8.219	11.111	5.274
2022-09-20 19:30	7720214	8.270	-118.489	290.281	11.085	383.609	522.464	0.253	0.340	8.145	11.085	5.382
2022-09-20 19:45	7721114	8.253	-117.583	288.994	11.09	383.698	522.516	0.253	0.340	8.006	11.09	4.859
2022-09-20 20:00	7722014	8.227	-116.119	288.252	11.078	383.798	522.825	0.253	0.340	7.882	11.078	4.361
2022-09-20 20:15	7722914	8.232	-116.415	289.859	11.068	383.704	522.826	0.253	0.340	7.746	11.068	4.065
2022-09-20 20:30	7723814	8.221	-115.788	291.676	11.058	383.669	522.918	0.253	0.340	7.375	11.058	3.743
2022-09-20 20:45	7724714	8.228	-116.179	289.826	11.043	383.479	522.858	0.253	0.340	7.239	11.043	3.179
2022-09-20 21:00	7725614	8.207	-115.032	289.594	11.022	383.12	522.664	0.253	0.340	7.186	11.022	3.93
2022-09-20 21:15	7726514	8.262	-118.034	291.442	11	382.985	522.781	0.253	0.340	7.517	11	5.59
2022-09-20 21:30	7727414	8.254	-117.564	290.307	10.969	382.582	522.649	0.253	0.340	7.581	10.969	4.625
2022-09-20 21:45	7728314	8.281	-119.016	288.643	10.935	382.283	522.707	0.253	0.340	7.753	10.935	5.013
2022-09-20 22:00	7729214	8.253	-117.505	285.677	10.914	381.961	522.556	0.253	0.340	7.753	10.914	4.026
2022-09-20 22:15	7730114	8.238	-116.665	288.099	10.898	381.84	522.596	0.253	0.340	7.741	10.898	4.23
2022-09-20 22:30	7731014	8.223	-115.852	289.277	10.884	381.811	522.754	0.253	0.340	7.708	10.884	4.514
2022-09-20 22:45	7731914	8.207	-114.93	290.083	10.878	381.846	522.889	0.253	0.340	7.602	10.878	3.695

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-20 23:00	7732814	8.220	-115.631	288.963	10.835	381.292	522.71	0.253	0.340	7.602	10.835	4.065
2022-09-20 23:15	7733714	8.244	-116.966	289.673	10.805	380.926	522.617	0.253	0.340	7.666	10.805	5.016
2022-09-20 23:30	7734614	8.220	-115.621	289.871	10.764	380.324	522.354	0.252	0.340	7.914	10.764	4.982
2022-09-20 23:45	7735514	8.224	-115.836	289.368	10.734	380.035	522.365	0.252	0.340	8.025	10.734	4.803
2022-09-21 00:00	7736414	8.232	-116.234	285.968	10.688	379.803	522.679	0.253	0.340	8.015	10.688	4.042
2022-09-21 00:15	7737314	8.224	-115.798	287.704	10.68	380.185	523.316	0.253	0.340	7.913	10.68	5.153
2022-09-21 00:30	7738214	8.214	-115.256	290.608	10.672	379.943	523.096	0.253	0.340	7.951	10.672	3.816
2022-09-21 00:45	7739114	8.202	-114.594	291.993	10.669	380.045	523.28	0.253	0.340	7.835	10.669	3.738
2022-09-21 01:00	7740014	8.189	-113.871	292.076	10.661	379.891	523.179	0.253	0.340	7.659	10.661	3.637
2022-09-21 01:15	7740914	8.189	-113.866	293.969	10.657	379.814	523.12	0.253	0.340	7.387	10.657	3.541
2022-09-21 01:30	7741814	8.198	-114.377	291.783	10.644	379.782	523.265	0.253	0.340	7.349	10.644	3.317
2022-09-21 01:45	7742714	8.231	-116.153	288.171	10.624	379.394	522.995	0.253	0.340	7.369	10.624	3.705
2022-09-21 02:00	7743614	8.226	-115.864	286.702	10.587	378.956	522.902	0.253	0.340	7.542	10.587	3.518
2022-09-21 02:15	7744514	8.224	-115.759	289.53	10.564	378.549	522.658	0.252	0.340	7.614	10.564	5.047
2022-09-21 02:30	7745414	8.236	-116.42	290.062	10.532	377.804	522.075	0.252	0.339	7.974	10.532	4.973
2022-09-21 02:45	7746314	8.227	-115.902	292.329	10.511	378.074	522.739	0.253	0.340	8.049	10.511	4.492
2022-09-21 03:00	7747214	8.215	-115.228	292.193	10.477	377.738	522.738	0.252	0.340	7.960	10.477	4.31
2022-09-21 03:15	7748114	8.186	-113.623	295.343	10.46	377.552	522.717	0.252	0.340	7.799	10.46	4.469
2022-09-21 03:30	7749014	8.228	-115.941	291.924	10.423	377.132	522.643	0.252	0.340	7.987	10.423	5.167
2022-09-21 03:45	7749914	8.231	-116.05	290.639	10.389	376.86	522.736	0.252	0.340	8.023	10.389	4.78
2022-09-21 04:00	7750814	8.218	-115.359	287.775	10.378	376.873	522.907	0.253	0.340	8.033	10.378	4.824
2022-09-21 04:15	7751714	8.195	-114.074	289.377	10.384	377.174	523.251	0.253	0.340	7.917	10.384	3.618
2022-09-21 04:30	7752614	8.198	-114.279	290.789	10.373	377.069	523.255	0.253	0.340	7.687	10.373	3.995
2022-09-21 04:45	7753514	8.199	-114.329	291.64	10.358	376.914	523.245	0.253	0.340	7.716	10.358	4.551
2022-09-21 05:00	7754414	8.187	-113.652	291.087	10.343	376.616	523.036	0.253	0.340	7.742	10.343	4.272
2022-09-21 05:15	7755314	8.162	-112.25	293.011	10.337	376.475	522.927	0.253	0.340	7.648	10.337	3.979
2022-09-21 05:30	7756214	8.162	-112.269	293.047	10.314	376.241	522.924	0.252	0.340	7.625	10.314	3.969
2022-09-21 05:45	7757114	8.219	-115.345	291.383	10.277	375.873	522.918	0.252	0.340	7.686	10.277	4.451
2022-09-21 06:00	7758014	8.216	-115.218	287.732	10.242	375.627	523.076	0.253	0.340	7.702	10.242	3.811
2022-09-21 06:15	7758914	8.196	-114.071	290.693	10.22	375.33	522.96	0.252	0.340	7.591	10.22	4.952
2022-09-21 06:30	7759814	8.222	-115.488	290.968	10.183	375.052	523.091	0.253	0.340	7.765	10.183	4.922
2022-09-21 06:45	7760714	8.206	-114.617	290.014	10.175	375.057	523.201	0.253	0.340	7.725	10.175	4.084
2022-09-21 07:00	7761614	8.178	-113.101	287.62	10.164	374.938	523.196	0.253	0.340	7.686	10.164	6.733
2022-09-21 07:15	7762514	8.191	-113.761	291.969	10.15	374.788	523.181	0.253	0.340	7.496	10.15	3.953
2022-09-21 07:30	7763414	8.206	-114.586	291.158	10.129	374.424	522.971	0.252	0.340	7.516	10.129	4.446
2022-09-21 07:45	7764314	8.198	-114.174	291.726	10.098	374.155	523.017	0.252	0.340	7.577	10.098	4.055
2022-09-21 08:00	7765214	8.216	-115.097	288.176	10.056	373.838	523.161	0.252	0.340	7.724	10.056	4.234
2022-09-21 08:15	7766114	8.219	-115.263	290.636	10.04	373.513	522.939	0.252	0.340	7.662	10.04	4.667
2022-09-21 08:30	7767014	8.221	-115.354	291.819	10.015	373.264	522.932	0.252	0.340	7.702	10.015	4.114
2022-09-21 08:45	7767914	8.219	-115.283	292.937	10.001	373.3	523.183	0.252	0.340	7.729	10.001	4.707
2022-09-21 09:00	7768814	8.177	-112.951	294.742	9.991	373.139	523.1	0.252	0.340	7.719	9.991	4.109
2022-09-21 09:15	7769714	8.199	-114.15	295.645	9.976	372.883	522.948	0.252	0.340	7.493	9.976	4.259
2022-09-21 09:30	7770614	8.210	-114.746	293.166	9.961	372.71	522.909	0.252	0.340	7.770	9.961	4.18
2022-09-21 09:45	7771514	8.215	-115.027	291.9	9.948	372.541	522.854	0.252	0.340	7.693	9.948	4.25
2022-09-21 10:00	7772414	8.215	-114.994	289.115	9.922	372.337	522.939	0.252	0.340	7.762	9.922	4.006
2022-09-21 10:15	7773314	8.221	-115.318	289.18	9.925	372.437	523.04	0.252	0.340	7.754	9.925	5.773
2022-09-21 10:30	7774214	8.207	-114.591	291.034	9.924	372.574	523.245	0.252	0.340	7.857	9.924	4.514
2022-09-21 10:45	7775114	8.227	-115.681	290.586	9.925	372.463	523.072	0.252	0.340	7.808	9.925	5.667

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-21 11:00	7776014	8.200	-114.172	290.71	9.928	372.531	523.119	0.252	0.340	7.634	9.928	3.858
2022-09-21 11:15	7776914	8.229	-115.8	291.485	9.939	372.612	523.092	0.252	0.340	7.651	9.939	4.091
2022-09-21 11:30	7777814	8.191	-113.695	289.482	9.951	372.771	523.143	0.252	0.340	7.628	9.951	3.339
2022-09-21 11:45	7778714	8.182	-113.232	289.542	9.973	373.078	523.264	0.252	0.340	7.562	9.973	3.305
2022-09-21 12:00	7779614	8.154	-111.675	286.392	10.002	373.537	523.496	0.253	0.340	7.379	10.002	2.603
2022-09-21 12:15	7780514	8.137	-110.788	289.177	10.029	373.98	523.746	0.253	0.340	7.173	10.029	2.672
2022-09-21 12:30	7781414	8.140	-110.941	291.571	10.052	374.173	523.688	0.253	0.340	7.125	10.052	3.259
2022-09-21 12:45	7782314	8.126	-110.204	292.579	10.074	374.462	523.783	0.253	0.340	7.249	10.074	2.838
2022-09-21 13:00	7783214	8.123	-110.04	292.479	10.101	374.527	523.501	0.253	0.340	7.172	10.101	2.365
2022-09-21 13:15	7784114	8.113	-109.496	294.241	10.142	374.962	523.532	0.253	0.340	7.146	10.142	2.359
2022-09-21 13:30	7785014	8.105	-109.124	293.392	10.225	375.86	523.634	0.253	0.340	7.075	10.225	2.2
2022-09-21 13:45	7785914	8.096	-108.664	293.056	10.332	377.033	523.766	0.253	0.340	7.007	10.332	2.171
2022-09-21 14:00	7786814	8.099	-108.879	289.835	10.433	378.022	523.743	0.253	0.340	6.946	10.433	2.825
2022-09-21 14:15	7787714	8.100	-108.931	291.533	10.534	379.008	523.707	0.253	0.340	6.978	10.534	2.548
2022-09-21 14:30	7788614	8.108	-109.413	292.339	10.66	380.143	523.538	0.253	0.340	6.987	10.66	3.086
2022-09-21 14:45	7789514	8.125	-110.397	292.315	10.771	381.071	523.292	0.253	0.340	7.452	10.771	4.967
2022-09-21 15:00	7790414	8.156	-112.157	290.729	10.882	381.849	522.827	0.253	0.340	7.940	10.882	2.983
2022-09-21 15:15	7791314	8.189	-114.002	290.186	10.996	383.008	522.865	0.253	0.340	7.933	10.996	3.268
2022-09-21 15:30	7792214	8.213	-115.352	286.693	11.063	383.909	523.182	0.253	0.340	7.611	11.063	2.616
2022-09-21 15:45	7793114	8.224	-115.972	284.824	11.117	384.392	523.105	0.253	0.340	7.586	11.117	3.143
2022-09-21 16:00	7794014	8.226	-116.1	282.599	11.162	384.434	522.55	0.253	0.340	7.713	11.162	3.178
2022-09-21 16:15	7794914	8.260	-117.974	284.111	11.203	384.329	521.855	0.252	0.339	7.839	11.203	2.817
2022-09-21 16:30	7795814	8.276	-118.892	285.842	11.254	385.082	522.174	0.253	0.339	8.058	11.254	2.922
2022-09-21 16:45	7796714	8.290	-119.705	285.01	11.3	385.447	522.049	0.253	0.339	8.178	11.3	2.973
2022-09-21 17:00	7797614	8.302	-120.342	283.98	11.327	385.895	522.293	0.253	0.339	8.423	11.327	3.514
2022-09-21 17:15	7798514	8.320	-121.381	284.642	11.378	386.677	522.661	0.253	0.340	8.624	11.378	2.919
2022-09-21 17:30	7799414	8.312	-120.962	283.286	11.394	386.849	522.68	0.253	0.340	8.594	11.394	3.302
2022-09-21 17:45	7800314	8.317	-121.226	282.864	11.39	386.952	522.88	0.253	0.340	8.640	11.39	2.977
2022-09-21 18:00	7801214	8.325	-121.641	280.687	11.377	386.834	522.888	0.253	0.340	8.789	11.377	3.02
2022-09-21 18:15	7802114	8.331	-121.982	283.896	11.334	386.237	522.664	0.253	0.340	8.613	11.334	3.759
2022-09-21 18:30	7803014	8.324	-121.562	284.535	11.308	385.738	522.338	0.253	0.340	8.987	11.308	2.814
2022-09-21 18:45	7803914	8.332	-122.004	285.806	11.263	385.187	522.203	0.253	0.339	9.080	11.263	3.464
2022-09-21 19:00	7804814	8.319	-121.238	286.073	11.251	385.45	522.722	0.253	0.340	9.017	11.251	4.231
2022-09-21 19:15	7805714	8.303	-120.373	287.573	11.236	385.504	522.998	0.253	0.340	8.926	11.236	3.535
2022-09-21 19:30	7806614	8.294	-119.872	286.431	11.211	385.453	523.272	0.253	0.340	8.703	11.211	3.194
2022-09-21 19:45	7807514	8.286	-119.419	284.945	11.185	385.261	523.364	0.253	0.340	8.492	11.185	3.656
2022-09-21 20:00	7808414	8.250	-117.452	283.136	11.17	385.219	523.5	0.253	0.340	8.396	11.17	2.779
2022-09-21 20:15	7809314	8.244	-117.104	283.882	11.156	385.097	523.532	0.253	0.340	8.229	11.156	2.651
2022-09-21 20:30	7810214	8.229	-116.255	285.46	11.157	385.291	523.782	0.253	0.340	8.019	11.157	2.647
2022-09-21 20:45	7811114	8.237	-116.692	286.016	11.155	385.264	523.774	0.253	0.340	7.977	11.155	2.417
2022-09-21 21:00	7812014	8.204	-114.899	286.736	11.156	385.388	523.918	0.253	0.341	7.839	11.156	2.338
2022-09-21 21:15	7812914	8.219	-115.733	289.206	11.159	385.469	523.996	0.253	0.341	7.804	11.159	2.713
2022-09-21 21:30	7813814	8.232	-116.463	287.451	11.162	385.546	524.059	0.253	0.341	7.741	11.162	2.286
2022-09-21 21:45	7814714	8.204	-114.896	288.133	11.175	385.809	524.237	0.254	0.341	7.792	11.175	2.382
2022-09-21 22:00	7815615	8.179	-113.537	287.167	11.19	385.942	524.22	0.254	0.341	7.824	11.19	2.879
2022-09-21 22:15	7816515	8.203	-114.887	288.71	11.206	386.024	524.106	0.254	0.341	7.904	11.206	2.398
2022-09-21 22:30	7817415	8.189	-114.102	289.199	11.232	386.424	524.296	0.254	0.341	7.841	11.232	2.532
2022-09-21 22:45	7818315	8.182	-113.728	290.81	11.257	386.744	524.39	0.254	0.341	7.988	11.257	2.333

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-21 23:00	7819215	8.180	-113.645	290.584	11.28	386.811	524.174	0.254	0.341	7.928	11.28	2.47
2022-09-21 23:15	7820115	8.206	-115.07	291.862	11.296	386.85	524.011	0.254	0.341	8.003	11.296	2.564
2022-09-21 23:30	7821015	8.198	-114.655	291.232	11.299	387.034	524.219	0.254	0.341	7.820	11.299	2.874
2022-09-21 23:45	7821915	8.230	-116.415	288.357	11.299	387.016	524.198	0.254	0.341	7.815	11.299	3.459
2022-09-22 00:00	7822815	8.221	-115.917	285.548	11.287	386.784	524.039	0.254	0.341	7.880	11.287	2.911
2022-09-22 00:15	7823715	8.206	-115.066	287.284	11.261	386.4	523.874	0.253	0.341	8.171	11.261	2.853
2022-09-22 00:30	7824615	8.247	-117.261	288.209	11.211	385.628	523.503	0.253	0.340	8.056	11.211	3.778
2022-09-22 00:45	7825515	8.282	-119.195	286.113	11.214	385.673	523.52	0.253	0.340	8.282	11.214	3.279
2022-09-22 01:00	7826415	8.245	-117.178	288.359	11.194	385.638	523.745	0.253	0.340	8.252	11.194	3.048
2022-09-22 01:15	7827315	8.248	-117.335	289.361	11.196	385.811	523.961	0.253	0.341	8.075	11.196	2.439
2022-09-22 01:30	7828215	8.247	-117.297	288.133	11.169	385.754	524.249	0.254	0.341	7.768	11.169	2.479
2022-09-22 01:45	7829115	8.238	-116.756	287.139	11.138	385.496	524.31	0.254	0.341	7.623	11.138	2.887
2022-09-22 02:00	7830015	8.208	-115.108	285.351	11.094	385.025	524.276	0.254	0.341	7.708	11.094	2.776
2022-09-22 02:15	7830915	8.222	-115.838	288.033	11.05	384.295	523.886	0.253	0.341	7.721	11.05	2.784
2022-09-22 02:30	7831815	8.245	-117.083	287.747	11.017	384.019	523.957	0.253	0.341	8.048	11.017	3.489
2022-09-22 02:45	7832715	8.254	-117.557	288.843	10.982	383.68	523.969	0.253	0.341	8.086	10.982	2.753
2022-09-22 03:00	7833615	8.232	-116.355	287.711	10.949	383.285	523.884	0.253	0.341	8.081	10.949	4.319
2022-09-22 03:15	7834515	8.242	-116.92	289.056	10.922	383.205	524.145	0.253	0.341	8.018	10.922	3.219
2022-09-22 03:30	7835415	8.238	-116.665	288.867	10.893	382.958	524.201	0.253	0.341	8.018	10.893	2.984
2022-09-22 03:45	7836315	8.225	-115.914	289.964	10.856	382.687	524.333	0.253	0.341	8.097	10.856	3.291
2022-09-22 04:00	7837215	8.228	-116.069	287.835	10.788	381.989	524.31	0.253	0.341	8.431	10.788	3.42
2022-09-22 04:15	7838115	8.233	-116.324	288.007	10.77	381.578	524.001	0.253	0.341	8.070	10.77	3.168
2022-09-22 04:30	7839015	8.251	-117.319	287.68	10.721	381.099	524.017	0.253	0.341	8.079	10.721	3.021
2022-09-22 04:45	7839915	8.243	-116.82	286.23	10.654	380.626	524.28	0.253	0.341	8.094	10.654	3.394
2022-09-22 05:00	7840815	8.233	-116.289	285.525	10.609	380.14	524.233	0.253	0.341	8.110	10.609	3.626
2022-09-22 05:15	7841715	8.242	-116.761	287.98	10.567	379.723	524.239	0.253	0.341	8.158	10.567	3.741
2022-09-22 05:30	7842615	8.227	-115.917	287.465	10.552	379.593	524.268	0.253	0.341	8.086	10.552	3.353
2022-09-22 05:45	7843515	8.213	-115.175	286.078	10.546	379.555	524.305	0.253	0.341	7.917	10.546	3.31
2022-09-22 06:00	7844415	8.214	-115.187	284.659	10.501	379.296	524.57	0.253	0.341	7.838	10.501	3.35
2022-09-22 06:15	7845315	8.207	-114.825	286.593	10.488	379.136	524.526	0.253	0.341	7.813	10.488	3.384
2022-09-22 06:30	7846215	8.204	-114.61	288.66	10.458	378.88	524.583	0.253	0.341	7.880	10.458	3.273
2022-09-22 06:45	7847115	8.204	-114.629	289.811	10.429	378.545	524.517	0.253	0.341	7.866	10.429	3.182
2022-09-22 07:00	7848015	8.201	-114.422	288.91	10.391	378.144	524.488	0.253	0.341	7.821	10.391	3.645
2022-09-22 07:15	7848915	8.191	-113.866	290.984	10.393	378.193	524.533	0.253	0.341	7.757	10.393	3.16
2022-09-22 07:30	7849815	8.184	-113.485	290.925	10.373	378.046	524.604	0.253	0.341	7.741	10.373	2.945
2022-09-22 07:45	7850715	8.185	-113.511	291.332	10.35	377.86	524.675	0.253	0.341	7.578	10.35	3.342
2022-09-22 08:00	7851615	8.187	-113.616	287.332	10.313	377.571	524.779	0.253	0.341	7.588	10.313	3.293
2022-09-22 08:15	7852515	8.192	-113.885	288.099	10.278	376.917	524.364	0.253	0.341	7.468	10.278	3.12
2022-09-22 08:30	7853415	8.190	-113.759	289.258	10.253	376.784	524.522	0.253	0.341	7.642	10.253	2.901
2022-09-22 08:45	7854315	8.187	-113.575	291.845	10.238	376.877	524.868	0.253	0.341	7.697	10.238	3.069
2022-09-22 09:00	7855215	8.166	-112.455	290.472	10.218	376.48	524.594	0.253	0.341	7.707	10.218	3.313
2022-09-22 09:15	7856115	8.172	-112.765	293.338	10.198	376.14	524.401	0.253	0.341	7.624	10.198	3.168
2022-09-22 09:30	7857015	8.164	-112.326	292.179	10.192	376.187	524.545	0.253	0.341	7.826	10.192	2.994
2022-09-22 09:45	7857915	8.152	-111.682	292.353	10.177	375.942	524.406	0.253	0.341	7.697	10.177	3.108
2022-09-22 10:00	7858815	8.178	-113.046	288.622	10.147	375.676	524.468	0.253	0.341	7.912	10.147	4.216
2022-09-22 10:15	7859715	8.201	-114.346	288.138	10.132	375.416	524.315	0.253	0.341	8.234	10.132	4.901
2022-09-22 10:30	7860615	8.200	-114.267	289.742	10.125	375.543	524.582	0.253	0.341	8.251	10.125	5.367
2022-09-22 10:45	7861515	8.184	-113.387	290.434	10.13	375.701	524.734	0.253	0.341	8.161	10.13	5.191

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-22 11:00	7862415	8.180	-113.177	290.822	10.128	375.51	524.495	0.253	0.341	7.951	10.128	3.506
2022-09-22 11:15	7863315	8.176	-112.979	292.012	10.142	375.566	524.382	0.253	0.341	8.034	10.142	2.691
2022-09-22 11:30	7864215	8.151	-111.585	292.124	10.159	375.839	524.528	0.253	0.341	7.805	10.159	2.591
2022-09-22 11:45	7865115	8.163	-112.271	291.542	10.188	376.062	524.425	0.253	0.341	7.770	10.188	2.785
2022-09-22 12:00	7866015	8.177	-113.029	287.451	10.224	376.5	524.529	0.253	0.341	7.773	10.224	3.041
2022-09-22 12:15	7866915	8.175	-112.951	289.735	10.262	376.95	524.635	0.253	0.341	7.786	10.262	2.959
2022-09-22 12:30	7867815	8.177	-113.096	291.316	10.294	377.322	524.698	0.253	0.341	7.643	10.294	2.645
2022-09-22 12:45	7868715	8.171	-112.789	291.602	10.33	377.702	524.733	0.253	0.341	7.536	10.33	2.628
2022-09-22 13:00	7869615	8.182	-113.399	291.239	10.364	377.662	524.204	0.253	0.341	7.636	10.364	2.843
2022-09-22 13:15	7870515	8.205	-114.682	291.783	10.412	378.302	524.429	0.253	0.341	7.569	10.412	3.25
2022-09-22 13:30	7871415	8.253	-117.309	291.928	10.476	378.663	524.029	0.253	0.341	8.186	10.476	3.691
2022-09-22 13:45	7872315	8.283	-118.99	286.609	10.545	378.948	523.471	0.253	0.340	8.790	10.545	4.579
2022-09-22 14:00	7873215	8.289	-119.324	284.163	10.569	379.105	523.36	0.253	0.340	9.007	10.569	4.258
2022-09-22 14:15	7874115	8.303	-120.075	285.632	10.569	379.194	523.477	0.253	0.340	8.993	10.569	4.271
2022-09-22 14:30	7875015	8.282	-118.94	288.03	10.592	379.52	523.608	0.253	0.340	8.916	10.592	3.888
2022-09-22 14:45	7875915	8.298	-119.824	289.082	10.625	379.773	523.509	0.253	0.340	9.120	10.625	5.506
2022-09-22 15:00	7876815	8.319	-120.993	286.576	10.631	379.848	523.531	0.253	0.340	9.200	10.631	5.162
2022-09-22 15:15	7877715	8.333	-121.794	286.624	10.654	379.984	523.396	0.253	0.340	9.315	10.654	5.453
2022-09-22 15:30	7878615	8.346	-122.468	286.473	10.669	380.118	523.372	0.253	0.340	9.409	10.669	4.982
2022-09-22 15:45	7879515	8.359	-123.224	284.008	10.689	380.134	523.119	0.253	0.340	9.503	10.689	5.577
2022-09-22 16:00	7880415	8.320	-121.071	283.467	10.725	380.652	523.348	0.253	0.340	9.526	10.725	4.222
2022-09-22 16:15	7881315	8.343	-122.347	283.262	10.755	380.9	523.269	0.253	0.340	9.575	10.755	4.501
2022-09-22 16:30	7882215	8.358	-123.231	284.015	10.822	381.353	522.977	0.253	0.340	9.646	10.822	5.589
2022-09-22 16:45	7883115	8.384	-124.669	282.046	10.859	381.733	522.993	0.253	0.340	9.904	10.859	5.286
2022-09-22 17:00	7884015	8.400	-125.513	280.585	10.814	381.081	522.707	0.253	0.340	9.982	10.814	6.458
2022-09-22 17:15	7884915	8.392	-125.079	283.469	10.782	380.942	522.965	0.253	0.340	9.793	10.782	5.336
2022-09-22 17:30	7885815	8.392	-125.043	282.656	10.779	380.749	522.731	0.253	0.340	9.896	10.779	6.229
2022-09-22 17:45	7886715	8.385	-124.698	283.314	10.76	380.802	523.072	0.253	0.340	9.824	10.76	5.734
2022-09-22 18:00	7887615	8.374	-124.075	282.146	10.737	380.941	523.573	0.253	0.340	9.707	10.737	6.783
2022-09-22 18:15	7888515	8.377	-124.202	282.842	10.738	381.017	523.672	0.253	0.340	9.709	10.738	7.103
2022-09-22 18:30	7889415	8.383	-124.586	285.091	10.771	381.59	523.996	0.253	0.341	9.756	10.771	4.931
2022-09-22 18:45	7890315	8.385	-124.667	287.155	10.773	381.715	524.14	0.253	0.341	9.726	10.773	5.627
2022-09-22 19:00	7891215	8.364	-123.537	287.508	10.777	381.797	524.207	0.253	0.341	9.624	10.777	5.569
2022-09-22 19:15	7892115	8.359	-123.279	288.212	10.791	382.261	524.644	0.254	0.341	9.513	10.791	5.113
2022-09-22 19:30	7893015	8.354	-122.998	288.929	10.8	382.506	524.861	0.254	0.341	9.380	10.8	6.135
2022-09-22 19:45	7893915	8.342	-122.344	288.197	10.811	382.801	525.119	0.254	0.341	9.345	10.811	6.243
2022-09-22 20:00	7894815	8.333	-121.858	285.475	10.81	382.979	525.366	0.254	0.341	9.267	10.81	6.287
2022-09-22 20:15	7895715	8.335	-121.939	286.743	10.809	383.113	525.563	0.254	0.342	9.229	10.809	5.308
2022-09-22 20:30	7896615	8.326	-121.479	288.092	10.808	383.137	525.615	0.254	0.342	9.094	10.808	5.359
2022-09-22 20:45	7897515	8.320	-121.112	289.792	10.806	383.163	525.68	0.254	0.342	9.078	10.806	5.337
2022-09-22 21:00	7898415	8.302	-120.144	290.086	10.8	383.075	525.633	0.254	0.342	9.014	10.8	5.392
2022-09-22 21:15	7899315	8.308	-120.48	290.672	10.792	382.99	525.637	0.254	0.342	8.960	10.792	4.335
2022-09-22 21:30	7900215	8.299	-119.972	291.511	10.786	383.006	525.733	0.254	0.342	8.878	10.786	4.339
2022-09-22 21:45	7901115	8.302	-120.103	290.322	10.775	382.948	525.808	0.254	0.342	8.883	10.775	5.248
2022-09-22 22:00	7902015	8.295	-119.727	287.43	10.771	382.97	525.898	0.254	0.342	8.849	10.771	4.956
2022-09-22 22:15	7902915	8.280	-118.897	290.038	10.766	383.171	526.24	0.254	0.342	8.639	10.766	3.965
2022-09-22 22:30	7903815	8.270	-118.377	292.222	10.764	383.243	526.369	0.254	0.342	8.422	10.764	4.161
2022-09-22 22:45	7904715	8.257	-117.648	293.464	10.762	383.265	526.43	0.254	0.342	8.243	10.762	3.371

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-22 23:00	7905615	8.243	-116.873	293.44	10.762	383.174	526.298	0.254	0.342	8.380	10.762	4.714
2022-09-22 23:15	7906515	8.266	-118.148	293.726	10.746	382.806	526.01	0.254	0.342	8.766	10.746	6.631
2022-09-22 23:30	7907415	8.295	-119.717	290.558	10.732	382.483	525.766	0.254	0.342	8.852	10.732	5.991
2022-09-22 23:45	7908315	8.290	-119.45	289.032	10.687	381.689	525.288	0.254	0.341	8.738	10.687	6.081
2022-09-23 00:00	7909215	8.295	-119.729	286.702	10.687	381.801	525.452	0.254	0.342	8.830	10.687	6.548
2022-09-23 00:15	7910115	8.304	-120.189	288.581	10.702	382.152	525.72	0.254	0.342	8.897	10.702	7.491
2022-09-23 00:30	7911015	8.307	-120.389	289.704	10.727	382.527	525.892	0.254	0.342	9.002	10.727	5.746
2022-09-23 00:45	7911915	8.305	-120.28	290.19	10.745	382.814	526.042	0.254	0.342	8.986	10.745	5.859
2022-09-23 01:00	7912815	8.298	-119.891	289.578	10.748	382.648	525.772	0.254	0.342	8.954	10.748	5.418
2022-09-23 01:15	7913715	8.305	-120.258	291.259	10.752	382.708	525.793	0.254	0.342	8.946	10.752	5.151
2022-09-23 01:30	7914615	8.307	-120.378	290.713	10.762	382.842	525.845	0.254	0.342	8.927	10.762	5.238
2022-09-23 01:45	7915515	8.300	-120.008	290.467	10.768	382.86	525.782	0.254	0.342	8.907	10.768	5.147
2022-09-23 02:00	7916415	8.299	-119.929	288.305	10.756	382.869	525.966	0.254	0.342	8.887	10.756	5.195
2022-09-23 02:15	7917315	8.298	-119.894	290.529	10.741	382.681	525.916	0.254	0.342	8.914	10.741	5.613
2022-09-23 02:30	7918215	8.304	-120.194	291.723	10.738	382.708	525.992	0.254	0.342	8.913	10.738	5.228
2022-09-23 02:45	7919115	8.300	-120.027	292.999	10.739	382.829	526.142	0.254	0.342	8.860	10.739	5
2022-09-23 03:00	7920015	8.275	-118.647	292.32	10.738	382.732	526.025	0.254	0.342	8.737	10.738	4.666
2022-09-23 03:15	7920915	8.293	-119.629	292.548	10.732	382.739	526.118	0.254	0.342	8.568	10.732	4.256
2022-09-23 03:30	7921815	8.280	-118.878	293.438	10.727	382.72	526.154	0.254	0.342	8.596	10.727	4.371
2022-09-23 03:45	7922715	8.292	-119.567	292.978	10.704	382.382	526.009	0.254	0.342	8.800	10.704	5.285
2022-09-23 04:00	7923615	8.280	-118.887	288.202	10.701	382.444	526.137	0.254	0.342	8.764	10.701	5.218
2022-09-23 04:15	7924515	8.290	-119.421	290.956	10.696	382.415	526.17	0.254	0.342	8.707	10.696	4.854
2022-09-23 04:30	7925415	8.286	-119.228	292.176	10.685	382.274	526.126	0.254	0.342	8.686	10.685	4.938
2022-09-23 04:45	7926315	8.281	-118.947	293.707	10.675	382.27	526.262	0.254	0.342	8.645	10.675	5.258
2022-09-23 05:00	7927215	8.266	-118.082	293.068	10.669	382.163	526.194	0.254	0.342	8.613	10.669	4.325
2022-09-23 05:15	7928115	8.277	-118.709	295.24	10.67	382.291	526.36	0.254	0.342	8.541	10.67	4.452
2022-09-23 05:30	7929015	8.278	-118.735	294.086	10.661	382.07	526.177	0.254	0.342	8.539	10.661	4.341
2022-09-23 05:45	7929915	8.275	-118.587	293.786	10.656	382.204	526.428	0.254	0.342	8.447	10.656	4.268
2022-09-23 06:00	7930816	8.252	-117.323	291.552	10.644	382.115	526.468	0.254	0.342	8.390	10.644	4.13
2022-09-23 06:15	7931716	8.273	-118.456	292.861	10.633	381.87	526.29	0.254	0.342	8.460	10.633	4.903
2022-09-23 06:30	7932616	8.278	-118.735	293.483	10.618	381.741	526.321	0.254	0.342	8.567	10.618	4.629
2022-09-23 06:45	7933516	8.274	-118.492	293.555	10.605	381.585	526.29	0.254	0.342	8.736	10.605	4.722
2022-09-23 07:00	7934416	8.271	-118.344	293.03	10.599	381.445	526.17	0.254	0.342	8.668	10.599	4.748
2022-09-23 07:15	7935316	8.282	-118.94	294.396	10.598	381.396	526.113	0.254	0.342	8.620	10.598	6.863
2022-09-23 07:30	7936216	8.281	-118.921	294.716	10.595	381.413	526.181	0.254	0.342	8.574	10.595	5.313
2022-09-23 07:45	7937116	8.277	-118.661	294.427	10.586	381.262	526.106	0.254	0.342	8.582	10.586	4.363
2022-09-23 08:00	7938016	8.262	-117.869	292.896	10.571	381.241	526.287	0.254	0.342	8.624	10.571	4.918
2022-09-23 08:15	7938916	8.283	-118.988	293.626	10.566	381.244	526.353	0.254	0.342	8.586	10.566	4.609
2022-09-23 08:30	7939816	8.278	-118.735	295.989	10.562	381.223	526.385	0.254	0.342	8.604	10.562	4.258
2022-09-23 08:45	7940716	8.281	-118.904	297.04	10.554	381.107	526.338	0.254	0.342	8.562	10.554	4.735
2022-09-23 09:00	7941616	8.258	-117.624	295.822	10.539	380.95	526.326	0.254	0.342	8.561	10.539	4.658
2022-09-23 09:15	7942516	8.283	-118.964	295.777	10.524	380.67	526.139	0.254	0.342	8.671	10.524	5.009
2022-09-23 09:30	7943416	8.280	-118.84	294.048	10.529	380.731	526.157	0.254	0.342	8.703	10.529	4.394
2022-09-23 09:45	7944316	8.285	-119.09	292.651	10.527	380.585	525.988	0.254	0.342	8.812	10.527	5.147
2022-09-23 10:00	7945216	8.288	-119.255	290.055	10.518	380.597	526.122	0.254	0.342	8.828	10.518	4.858
2022-09-23 10:15	7946116	8.292	-119.464	291.526	10.492	380.318	526.097	0.254	0.342	8.871	10.492	4.969
2022-09-23 10:30	7947016	8.298	-119.805	292.329	10.488	380.265	526.088	0.254	0.342	8.924	10.488	4.928
2022-09-23 10:45	7947916	8.301	-119.967	293.128	10.496	380.366	526.117	0.254	0.342	8.952	10.496	5.174

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-23 11:00	7948816	8.300	-119.92	289.88	10.511	380.358	525.9	0.254	0.342	8.994	10.511	6.14
2022-09-23 11:15	7949716	8.312	-120.544	290.033	10.523	380.507	525.936	0.254	0.342	9.058	10.523	4.53
2022-09-23 11:30	7950616	8.312	-120.564	288.748	10.52	380.404	525.833	0.254	0.342	9.075	10.52	5.157
2022-09-23 11:45	7951516	8.316	-120.788	288.061	10.526	380.446	525.802	0.254	0.342	9.114	10.526	4.524
2022-09-23 12:00	7952416	8.319	-120.931	284.163	10.518	380.516	526.012	0.254	0.342	9.091	10.518	5.238
2022-09-23 12:15	7953316	8.313	-120.618	285.217	10.525	380.558	525.978	0.254	0.342	9.074	10.525	4.717
2022-09-23 12:30	7954216	8.314	-120.702	287.797	10.532	380.714	526.091	0.254	0.342	9.070	10.532	5.036
2022-09-23 12:45	7955116	8.320	-121.012	287.153	10.548	380.835	526.045	0.254	0.342	9.134	10.548	4.879
2022-09-23 13:00	7956016	8.325	-121.276	284.712	10.575	380.945	525.816	0.254	0.342	9.228	10.575	5.086
2022-09-23 13:15	7956916	8.331	-121.655	284.94	10.6	381.215	525.841	0.254	0.342	9.286	10.6	4.996
2022-09-23 13:30	7957816	8.341	-122.225	283.562	10.64	381.557	525.761	0.254	0.342	9.360	10.64	5.116
2022-09-23 13:45	7958716	8.350	-122.7	280.976	10.697	382.117	525.741	0.254	0.342	9.436	10.697	5.6
2022-09-23 14:00	7959616	8.360	-123.296	276.846	10.753	382.722	525.798	0.254	0.342	9.537	10.753	5.217
2022-09-23 14:15	7960516	8.370	-123.851	276.891	10.779	382.858	525.632	0.254	0.342	9.645	10.779	4.685
2022-09-23 14:30	7961416	8.374	-124.071	276.636	10.795	383.085	525.722	0.254	0.342	9.651	10.795	4.985
2022-09-23 14:45	7962316	8.376	-124.223	276.074	10.852	383.697	525.777	0.254	0.342	9.658	10.852	4.614
2022-09-23 15:00	7963216	8.369	-123.858	275.468	10.909	384.274	525.783	0.254	0.342	9.718	10.909	5.853
2022-09-23 15:15	7964116	8.379	-124.426	275.287	10.901	384.118	525.68	0.254	0.342	9.712	10.901	6.633
2022-09-23 15:30	7965016	8.379	-124.4	274.555	10.935	384.411	525.607	0.254	0.342	9.750	10.935	6.772
2022-09-23 15:45	7965916	8.390	-125.046	272.314	10.962	384.692	525.622	0.254	0.342	9.808	10.962	5.434
2022-09-23 16:00	7966816	8.383	-124.712	269.977	11.056	385.661	525.665	0.254	0.342	9.895	11.056	4.849
2022-09-23 16:15	7967716	8.394	-125.308	271.951	11.075	385.708	525.469	0.254	0.342	9.912	11.075	5.25
2022-09-23 16:30	7968616	8.393	-125.244	274.376	11.071	385.802	525.65	0.254	0.342	9.894	11.071	5.273
2022-09-23 16:45	7969516	8.399	-125.58	274.5	11.091	385.995	525.632	0.254	0.342	9.927	11.091	5.034
2022-09-23 17:00	7970416	8.404	-125.892	270.943	11.151	386.498	525.505	0.254	0.342	9.993	11.151	5.951
2022-09-23 17:15	7971316	8.413	-126.398	269.877	11.18	386.758	525.465	0.254	0.342	10.046	11.18	5.602
2022-09-23 17:30	7972216	8.409	-126.152	269.081	11.177	386.756	525.495	0.254	0.342	9.977	11.177	5.711
2022-09-23 17:45	7973116	8.407	-126.064	270.113	11.181	386.853	525.579	0.254	0.342	9.979	11.181	5.819
2022-09-23 18:00	7974016	8.394	-125.344	270.406	11.178	387.049	525.878	0.254	0.342	9.896	11.178	6.173
2022-09-23 18:15	7974916	8.392	-125.237	272.18	11.188	387.188	525.935	0.254	0.342	9.906	11.188	5.347
2022-09-23 18:30	7975816	8.394	-125.363	274.503	11.188	387.143	525.875	0.254	0.342	9.883	11.188	5.745
2022-09-23 18:45	7976716	8.399	-125.608	274.533	11.178	387.086	525.936	0.254	0.342	9.860	11.178	6.075
2022-09-23 19:00	7977616	8.394	-125.332	272.953	11.154	386.786	525.856	0.254	0.342	9.859	11.154	6.334
2022-09-23 19:15	7978516	8.400	-125.692	272.342	11.153	386.769	525.838	0.254	0.342	9.850	11.153	5.636
2022-09-23 19:30	7979416	8.394	-125.344	271.656	11.151	386.842	525.975	0.254	0.342	9.785	11.151	5.35
2022-09-23 19:45	7980316	8.393	-125.272	271.539	11.143	386.875	526.12	0.254	0.342	9.742	11.143	6.066
2022-09-23 20:00	7981216	8.378	-124.474	270.299	11.133	386.892	526.287	0.255	0.342	9.713	11.133	6.217
2022-09-23 20:15	7982116	8.382	-124.681	273.492	11.125	386.792	526.254	0.255	0.342	9.659	11.125	5.135
2022-09-23 20:30	7983016	8.376	-124.347	277.137	11.105	386.601	526.263	0.255	0.342	9.646	11.105	5.625
2022-09-23 20:45	7983916	8.376	-124.302	278.095	11.087	386.422	526.269	0.255	0.342	9.628	11.087	5.297
2022-09-23 21:00	7984816	8.370	-123.999	277.712	11.067	386.217	526.262	0.255	0.342	9.567	11.067	5.75
2022-09-23 21:15	7985716	8.382	-124.662	278.651	11.06	386.246	526.399	0.255	0.342	9.503	11.06	4.775
2022-09-23 21:30	7986616	8.374	-124.204	277.566	11.04	385.936	526.259	0.255	0.342	9.530	11.04	5.23
2022-09-23 21:45	7987516	8.373	-124.116	278.212	11.008	385.681	526.343	0.255	0.342	9.559	11.008	5.691
2022-09-23 22:00	7988416	8.373	-124.133	277.571	10.988	385.536	526.418	0.255	0.342	9.562	10.988	5.631
2022-09-23 22:15	7989316	8.369	-123.868	280.003	10.974	385.451	526.493	0.255	0.342	9.536	10.974	5.39
2022-09-23 22:30	7990216	8.374	-124.173	281.448	10.955	385.177	526.384	0.255	0.342	9.568	10.955	5.341
2022-09-23 22:45	7991116	8.371	-123.966	281.963	10.939	385.094	526.486	0.255	0.342	9.532	10.939	5.544

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-23 23:00	7992016	8.364	-123.613	281.994	10.917	384.817	526.418	0.255	0.342	9.494	10.917	5.85
2022-09-23 23:15	7992916	8.372	-124.03	282.749	10.901	384.702	526.477	0.255	0.342	9.502	10.901	4.658
2022-09-23 23:30	7993816	8.379	-124.395	281.393	10.879	384.474	526.474	0.255	0.342	9.475	10.879	5.673
2022-09-23 23:45	7994716	8.379	-124.409	280.272	10.864	384.321	526.472	0.255	0.342	9.441	10.864	4.848
2022-09-24 00:00	7995616	8.354	-123.031	279.237	10.844	384.239	526.627	0.255	0.342	9.428	10.844	5.076
2022-09-24 00:15	7996516	8.371	-123.956	281.376	10.825	384	526.569	0.255	0.342	9.438	10.825	5.392
2022-09-24 00:30	7997416	8.366	-123.632	283.102	10.815	384.008	526.707	0.255	0.342	9.378	10.815	5.327
2022-09-24 00:45	7998316	8.365	-123.608	284.168	10.81	383.944	526.696	0.255	0.342	9.292	10.81	4.596
2022-09-24 01:00	7999216	8.334	-121.88	284.082	10.805	384.068	526.929	0.255	0.343	9.049	10.805	4.152
2022-09-24 01:15	8000116	8.358	-123.215	285.539	10.759	383.403	526.661	0.255	0.342	9.326	10.759	4.929
2022-09-24 01:30	8001016	8.361	-123.332	283.763	10.746	383.292	526.685	0.255	0.342	9.270	10.746	4.702
2022-09-24 01:45	8001916	8.359	-123.243	283.474	10.718	382.961	526.608	0.255	0.342	9.347	10.718	5.361
2022-09-24 02:00	8002816	8.344	-122.383	281.44	10.7	382.863	526.728	0.255	0.342	9.316	10.7	4.482
2022-09-24 02:15	8003716	8.348	-122.64	283.777	10.688	382.768	526.758	0.255	0.342	9.292	10.688	5.603
2022-09-24 02:30	8004616	8.356	-123.017	284.809	10.669	382.605	526.808	0.255	0.342	9.341	10.669	5.417
2022-09-24 02:45	8005516	8.353	-122.855	285.937	10.652	382.373	526.721	0.255	0.342	9.318	10.652	5.504
2022-09-24 03:00	8006416	8.353	-122.862	283.577	10.626	382.084	526.68	0.255	0.342	9.353	10.626	6.134
2022-09-24 03:15	8007316	8.363	-123.382	285.343	10.619	382.045	526.727	0.255	0.342	9.295	10.619	4.993
2022-09-24 03:30	8008216	8.361	-123.267	285.424	10.588	381.686	526.653	0.254	0.342	9.328	10.588	5.571
2022-09-24 03:45	8009116	8.361	-123.296	282.907	10.563	381.43	526.66	0.254	0.342	9.347	10.563	5.757
2022-09-24 04:00	8010016	8.358	-123.079	282.935	10.542	381.319	526.789	0.255	0.342	9.336	10.542	6.303
2022-09-24 04:15	8010916	8.358	-123.079	285.112	10.518	381.099	526.818	0.255	0.342	9.341	10.518	5.412
2022-09-24 04:30	8011816	8.355	-122.917	286.7	10.508	380.983	526.804	0.255	0.342	9.298	10.508	5.568
2022-09-24 04:45	8012716	8.351	-122.707	287.582	10.496	380.909	526.866	0.255	0.342	9.273	10.496	5.654
2022-09-24 05:00	8013616	8.346	-122.39	285.66	10.479	380.771	526.904	0.255	0.342	9.250	10.479	5.76
2022-09-24 05:15	8014516	8.357	-123.022	287.585	10.465	380.599	526.867	0.255	0.342	9.258	10.465	5.792
2022-09-24 05:30	8015416	8.357	-122.986	287.568	10.448	380.435	526.881	0.255	0.342	9.249	10.448	5.961
2022-09-24 05:45	8016316	8.359	-123.115	287	10.438	380.3	526.836	0.255	0.342	9.218	10.438	5.595
2022-09-24 06:00	8017216	8.350	-122.59	285.501	10.421	380.244	526.985	0.255	0.343	9.179	10.421	5.244
2022-09-24 06:15	8018116	8.354	-122.805	288.443	10.407	380.125	527.013	0.255	0.343	9.170	10.407	5.15
2022-09-24 06:30	8019016	8.344	-122.261	290.314	10.384	379.9	527.033	0.255	0.343	9.209	10.384	5.455
2022-09-24 06:45	8019916	8.346	-122.39	289.973	10.375	379.938	527.204	0.255	0.343	9.151	10.375	5.013
2022-09-24 07:00	8020816	8.325	-121.179	289.234	10.343	379.607	527.196	0.255	0.343	8.983	10.343	4.451
2022-09-24 07:15	8021716	8.347	-122.416	290.288	10.331	379.432	527.12	0.255	0.343	8.936	10.331	4.464
2022-09-24 07:30	8022616	8.344	-122.235	289.191	10.32	379.311	527.108	0.255	0.343	8.969	10.32	4.883
2022-09-24 07:45	8023516	8.344	-122.225	289.075	10.303	379.162	527.14	0.255	0.343	8.989	10.303	4.593
2022-09-24 08:00	8024416	8.327	-121.284	287.601	10.267	378.919	527.303	0.255	0.343	8.959	10.267	5.475
2022-09-24 08:15	8025316	8.327	-121.238	288.252	10.216	378.532	527.473	0.255	0.343	8.891	10.216	5.214
2022-09-24 08:30	8026216	8.319	-120.847	289.535	10.219	378.563	527.479	0.255	0.343	8.915	10.219	5.63
2022-09-24 08:45	8027116	8.338	-121.839	290.14	10.213	378.447	527.403	0.255	0.343	8.948	10.213	4.978
2022-09-24 09:00	8028016	8.321	-120.902	289.036	10.208	378.21	527.142	0.255	0.343	8.967	10.208	7.881
2022-09-24 09:15	8028916	8.327	-121.214	290.455	10.168	377.881	527.252	0.255	0.343	8.931	10.168	4.735
2022-09-24 09:30	8029816	8.328	-121.269	289.671	10.174	377.879	527.161	0.255	0.343	8.972	10.174	5.237
2022-09-24 09:45	8030716	8.340	-121.968	289.06	10.174	377.915	527.202	0.255	0.343	8.946	10.174	6.091
2022-09-24 10:00	8031616	8.332	-121.517	285.095	10.178	377.955	527.206	0.255	0.343	8.973	10.178	5.305
2022-09-24 10:15	8032516	8.334	-121.603	287.027	10.18	376.417	525.039	0.253	0.341	9.069	10.18	5.148
2022-09-24 10:30	8033416	8.341	-122.008	287.816	10.165	377.686	527.014	0.254	0.343	9.137	10.165	4.72
2022-09-24 10:45	8034316	8.345	-122.204	287.792	10.155	377.578	527.005	0.254	0.343	9.193	10.155	5.345

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-24 11:00	8035216	8.342	-122.058	285.804	10.137	377.343	526.933	0.254	0.343	9.203	10.137	5.84
2022-09-24 11:15	8036116	8.349	-122.433	287.146	10.132	377.329	526.975	0.254	0.343	9.211	10.132	5.53
2022-09-24 11:30	8037016	8.355	-122.769	286.383	10.128	377.261	526.935	0.254	0.343	9.216	10.128	5.014
2022-09-24 11:45	8037916	8.357	-122.871	285.036	10.12	377.241	527.024	0.254	0.343	9.186	10.12	5.047
2022-09-24 12:00	8038816	8.352	-122.595	281.6	10.119	377.255	527.059	0.254	0.343	9.225	10.119	5.638
2022-09-24 12:15	8039716	8.356	-122.79	283.539	10.115	377.231	527.079	0.254	0.343	9.217	10.115	4.825
2022-09-24 12:30	8040616	8.361	-123.057	284.33	10.117	377.229	527.053	0.254	0.343	9.229	10.117	4.756
2022-09-24 12:45	8041516	8.352	-122.561	284.824	10.117	377.211	527.029	0.254	0.343	9.265	10.117	5.386
2022-09-24 13:00	8042416	8.355	-122.759	282.83	10.128	377.205	526.865	0.254	0.342	9.334	10.128	5.521
2022-09-24 13:15	8043316	8.367	-123.408	283.114	10.149	377.382	526.812	0.254	0.342	9.398	10.149	4.639
2022-09-24 13:30	8044216	8.370	-123.599	281.5	10.192	377.796	526.79	0.254	0.342	9.481	10.192	5.376
2022-09-24 13:45	8045116	8.375	-123.887	280.79	10.238	378.154	526.649	0.254	0.342	9.536	10.238	4.618
2022-09-24 14:00	8046016	8.382	-124.285	277.058	10.304	378.884	526.736	0.254	0.342	9.666	10.304	4.767
2022-09-24 14:15	8046916	8.392	-124.884	279.028	10.344	379.385	526.875	0.254	0.342	9.682	10.344	4.626
2022-09-24 14:30	8047816	8.392	-124.919	277.986	10.392	379.768	526.731	0.254	0.342	9.705	10.392	5.262
2022-09-24 14:45	8048716	8.391	-124.869	279.369	10.425	380.084	526.715	0.254	0.342	9.701	10.425	5.204
2022-09-24 15:00	8049616	8.393	-125.01	276.453	10.47	380.479	526.624	0.254	0.342	9.802	10.47	5.339
2022-09-24 15:15	8050516	8.410	-125.935	274.586	10.49	380.542	526.433	0.254	0.342	9.863	10.49	5.155
2022-09-24 15:30	8051416	8.411	-126.021	275.308	10.552	381.193	526.481	0.254	0.342	9.851	10.552	4.69
2022-09-24 15:45	8052316	8.411	-126.014	274.209	10.609	381.748	526.447	0.254	0.342	9.923	10.609	4.28
2022-09-24 16:00	8053217	8.408	-125.864	272.173	10.649	382.135	526.43	0.254	0.342	9.996	10.649	5.332
2022-09-24 16:15	8054117	8.429	-127.046	272.094	10.721	382.704	526.225	0.254	0.342	10.092	10.721	4.524
2022-09-24 16:30	8055017	8.431	-127.225	272.402	10.77	383.207	526.234	0.254	0.342	10.131	10.77	4.469
2022-09-24 16:45	8055917	8.428	-127.051	274.331	10.798	383.473	526.215	0.254	0.342	10.119	10.798	4.61
2022-09-24 17:00	8056817	8.420	-126.631	273.034	10.822	383.767	526.283	0.254	0.342	10.104	10.822	4.94
2022-09-24 17:15	8057717	8.433	-127.342	273.561	10.839	383.849	526.165	0.254	0.342	10.141	10.839	5.327
2022-09-24 17:30	8058617	8.434	-127.401	273.828	10.831	383.704	526.072	0.254	0.342	10.238	10.831	5.133
2022-09-24 17:45	8059517	8.435	-127.478	273.084	10.834	383.66	525.971	0.254	0.342	10.279	10.834	5.229
2022-09-24 18:00	8060417	8.443	-127.857	269.832	10.814	383.695	526.299	0.254	0.342	10.227	10.814	4.921
2022-09-24 18:15	8061317	8.438	-127.628	272.712	10.808	383.683	526.364	0.254	0.342	10.201	10.808	5.524
2022-09-24 18:30	8062217	8.433	-127.351	275.275	10.796	383.616	526.431	0.254	0.342	10.142	10.796	4.803
2022-09-24 18:45	8063117	8.425	-126.872	275.585	10.789	383.655	526.58	0.255	0.342	10.086	10.789	5.406
2022-09-24 19:00	8064017	8.418	-126.483	274.61	10.783	383.555	526.527	0.255	0.342	10.020	10.783	5.149
2022-09-24 19:15	8064917	8.419	-126.536	276.922	10.771	383.513	526.635	0.255	0.342	9.998	10.771	5.658
2022-09-24 19:30	8065817	8.416	-126.39	276.658	10.774	383.58	526.695	0.255	0.342	9.954	10.774	4.471
2022-09-24 19:45	8066717	8.415	-126.34	276.925	10.771	383.63	526.795	0.255	0.342	9.902	10.771	4.494
2022-09-24 20:00	8067617	8.404	-125.711	274.688	10.761	383.576	526.86	0.255	0.342	9.822	10.761	4.932
2022-09-24 20:15	8068517	8.415	-126.338	276.45	10.752	383.549	526.953	0.255	0.343	9.746	10.752	4.205
2022-09-24 20:30	8069417	8.393	-125.089	278.038	10.747	383.686	527.211	0.255	0.343	9.560	10.747	3.542
2022-09-24 20:45	8070317	8.382	-124.481	281.457	10.736	383.757	527.465	0.255	0.343	9.311	10.736	3.553
2022-09-24 21:00	8071217	8.337	-122.015	283.429	10.731	383.796	527.587	0.255	0.343	9.141	10.731	3.041
2022-09-24 21:15	8072117	8.352	-122.855	285.196	10.717	383.785	527.765	0.255	0.343	9.086	10.717	3.188
2022-09-24 21:30	8073017	8.372	-123.913	282.749	10.695	383.637	527.856	0.255	0.343	8.960	10.695	3.131
2022-09-24 21:45	8073917	8.352	-122.821	285.234	10.656	382.832	527.296	0.255	0.343	8.944	10.656	3.773
2022-09-24 22:00	8074817	8.331	-121.682	281.996	10.631	382.705	527.472	0.255	0.343	9.372	10.631	5.047
2022-09-24 22:15	8075717	8.323	-121.243	282.833	10.636	383.118	527.964	0.255	0.343	9.225	10.636	3.202
2022-09-24 22:30	8076617	8.294	-119.631	285.703	10.651	383.486	528.261	0.255	0.343	9.023	10.651	3.148
2022-09-24 22:45	8077517	8.278	-118.792	287.42	10.673	383.78	528.368	0.255	0.343	8.860	10.673	2.67

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-24 23:00	8078417	8.285	-119.131	288.545	10.69	383.938	528.351	0.255	0.343	8.722	10.69	3.327
2022-09-24 23:15	8079317	8.301	-120.01	284.857	10.692	384.06	528.491	0.255	0.344	8.999	10.692	3.074
2022-09-24 23:30	8080217	8.284	-119.126	282.702	10.691	384.009	528.424	0.255	0.343	9.125	10.691	3.601
2022-09-24 23:45	8081117	8.283	-119.021	281.588	10.685	384.091	528.629	0.256	0.344	8.979	10.685	4.038
2022-09-25 00:00	8082017	8.296	-119.76	279.943	10.68	384.219	528.876	0.256	0.344	9.046	10.68	4.17
2022-09-25 00:15	8082917	8.298	-119.846	282.532	10.677	384.418	529.193	0.256	0.344	8.808	10.677	3.315
2022-09-25 00:30	8083817	8.289	-119.362	284.642	10.676	384.596	529.443	0.256	0.344	8.680	10.676	3.216
2022-09-25 00:45	8084717	8.262	-117.865	285.413	10.675	384.65	529.535	0.256	0.344	8.557	10.675	3.315
2022-09-25 01:00	8085617	8.255	-117.483	285.536	10.673	384.505	529.365	0.256	0.344	8.443	10.673	3.047
2022-09-25 01:15	8086517	8.249	-117.152	287.017	10.673	384.529	529.393	0.256	0.344	8.516	10.673	2.858
2022-09-25 01:30	8087417	8.248	-117.13	286.698	10.664	384.406	529.357	0.256	0.344	8.235	10.664	3.884
2022-09-25 01:45	8088317	8.229	-116.079	286.066	10.655	384.303	529.332	0.256	0.344	8.246	10.655	3.024
2022-09-25 02:00	8089217	8.273	-118.454	282.845	10.63	384.167	529.501	0.256	0.344	8.287	10.63	3.328
2022-09-25 02:15	8090117	8.259	-117.674	283.834	10.609	383.955	529.5	0.256	0.344	8.345	10.609	3.124
2022-09-25 02:30	8091017	8.261	-117.817	285.224	10.578	383.4	529.158	0.256	0.344	8.501	10.578	3.083
2022-09-25 02:45	8091917	8.252	-117.316	286.066	10.55	383.251	529.353	0.256	0.344	8.550	10.55	3.37
2022-09-25 03:00	8092817	8.261	-117.762	284.769	10.521	382.916	529.294	0.256	0.344	8.523	10.521	3.354
2022-09-25 03:15	8093717	8.282	-118.906	285.908	10.496	382.611	529.222	0.256	0.344	8.553	10.496	3.855
2022-09-25 03:30	8094617	8.279	-118.723	284.414	10.462	382.066	528.939	0.256	0.344	9.135	10.462	3.63
2022-09-25 03:45	8095517	8.252	-117.252	283.875	10.477	382.39	529.185	0.256	0.344	8.753	10.477	3.213
2022-09-25 04:00	8096417	8.240	-116.589	282.475	10.494	382.936	529.698	0.256	0.344	8.488	10.494	2.997
2022-09-25 04:15	8097317	8.221	-115.597	285.482	10.505	383.269	530.009	0.256	0.345	8.273	10.505	2.851
2022-09-25 04:30	8098217	8.218	-115.395	288.917	10.512	383.456	530.168	0.256	0.345	8.070	10.512	2.88
2022-09-25 04:45	8099117	8.236	-116.379	290.825	10.513	383.481	530.186	0.256	0.345	8.287	10.513	3.544
2022-09-25 05:00	8100017	8.225	-115.793	290.021	10.513	383.355	530.015	0.256	0.345	8.136	10.513	3.293
2022-09-25 05:15	8100917	8.230	-116.093	291.051	10.51	383.19	529.825	0.256	0.344	8.390	10.51	2.907
2022-09-25 05:30	8101817	8.241	-116.687	289.935	10.508	383.203	529.868	0.256	0.344	8.386	10.508	3.202
2022-09-25 05:45	8102717	8.239	-116.584	289.244	10.507	383.297	530.019	0.256	0.345	8.367	10.507	2.787
2022-09-25 06:00	8103617	8.230	-116.093	287.356	10.51	383.527	530.292	0.256	0.345	8.333	10.51	3.648
2022-09-25 06:15	8104517	8.232	-116.189	288.855	10.515	383.654	530.396	0.256	0.345	8.191	10.515	2.874
2022-09-25 06:30	8105417	8.226	-115.836	291.13	10.516	383.769	530.547	0.256	0.345	8.020	10.516	3.326
2022-09-25 06:45	8106317	8.209	-114.942	291.568	10.518	383.945	530.76	0.256	0.345	8.082	10.518	2.848
2022-09-25 07:00	8107217	8.200	-114.417	291.647	10.521	383.829	530.557	0.256	0.345	7.919	10.521	2.862
2022-09-25 07:15	8108117	8.217	-115.342	292.889	10.523	383.874	530.582	0.256	0.345	7.915	10.523	3.125
2022-09-25 07:30	8109017	8.208	-114.846	292.634	10.528	384.169	530.93	0.257	0.345	7.796	10.528	2.614
2022-09-25 07:45	8109917	8.183	-113.49	291.881	10.534	384.236	530.93	0.257	0.345	7.704	10.534	2.504
2022-09-25 08:00	8110817	8.170	-112.798	290.61	10.538	384.413	531.128	0.257	0.345	7.724	10.538	3.346
2022-09-25 08:15	8111717	8.164	-112.441	291.061	10.542	384.603	531.331	0.257	0.345	7.788	10.542	2.726
2022-09-25 08:30	8112617	8.165	-112.493	293.199	10.545	384.731	531.464	0.257	0.345	7.599	10.545	2.503
2022-09-25 08:45	8113517	8.175	-113.046	293.526	10.547	384.672	531.348	0.257	0.345	7.699	10.547	2.518
2022-09-25 09:00	8114417	8.187	-113.719	290.488	10.55	384.461	531.015	0.257	0.345	7.724	10.55	3.332
2022-09-25 09:15	8115317	8.194	-114.114	292.074	10.556	384.489	530.97	0.257	0.345	8.069	10.556	2.698
2022-09-25 09:30	8116217	8.199	-114.391	291.652	10.565	384.48	530.831	0.257	0.345	7.973	10.565	2.848
2022-09-25 09:45	8117117	8.203	-114.617	291.006	10.577	384.554	530.765	0.257	0.345	7.997	10.577	2.684
2022-09-25 10:00	8118017	8.196	-114.257	288.829	10.594	384.828	530.911	0.257	0.345	7.914	10.594	3.344
2022-09-25 10:15	8118917	8.188	-113.831	289.613	10.612	385.157	531.108	0.257	0.345	7.937	10.612	2.652
2022-09-25 10:30	8119817	8.160	-112.305	292.219	10.638	385.507	531.225	0.257	0.345	7.885	10.638	2.774
2022-09-25 10:45	8120717	8.152	-111.84	293.113	10.664	385.805	531.278	0.257	0.345	7.803	10.664	2.549

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-25 11:00	8121617	8.169	-112.815	292.007	10.692	385.885	530.998	0.257	0.345	7.723	10.692	3.027
2022-09-25 11:15	8122517	8.168	-112.751	292.384	10.74	386.348	530.97	0.257	0.345	7.819	10.74	2.92
2022-09-25 11:30	8123417	8.185	-113.702	292.365	10.773	386.785	531.11	0.257	0.345	7.590	10.773	2.355
2022-09-25 11:45	8124317	8.200	-114.524	291.917	10.802	387.126	531.174	0.257	0.345	7.447	10.802	2.39
2022-09-25 12:00	8125217	8.195	-114.291	291.876	10.819	387.251	531.106	0.257	0.345	7.435	10.819	2.323
2022-09-25 12:15	8126117	8.257	-117.688	293.04	10.833	386.988	530.546	0.257	0.345	7.525	10.833	3.439
2022-09-25 12:30	8127017	8.282	-119.061	289.358	10.841	386.647	529.972	0.256	0.344	8.998	10.841	4.413
2022-09-25 12:45	8127917	8.336	-122.013	284.659	10.835	386.286	529.553	0.256	0.344	9.217	10.835	4.041
2022-09-25 13:00	8128817	8.346	-122.588	283.21	10.825	386.005	529.311	0.256	0.344	9.436	10.825	6.15
2022-09-25 13:15	8129717	8.360	-123.315	283.612	10.822	385.955	529.291	0.256	0.344	9.447	10.822	4.597
2022-09-25 13:30	8130617	8.359	-123.253	282.673	10.832	386.061	529.298	0.256	0.344	9.497	10.832	4.264
2022-09-25 13:45	8131517	8.363	-123.537	282.206	10.864	386.365	529.266	0.256	0.344	9.518	10.864	4.625
2022-09-25 14:00	8132417	8.369	-123.885	279.094	10.921	386.817	529.103	0.256	0.344	9.565	10.921	4.078
2022-09-25 14:15	8133317	8.373	-124.08	278.582	10.948	387.176	529.211	0.256	0.344	9.582	10.948	4.817
2022-09-25 14:30	8134217	8.377	-124.362	279.516	10.997	387.692	529.245	0.256	0.344	9.565	10.997	4.858
2022-09-25 14:45	8135117	8.374	-124.19	279.872	11.038	388.051	529.169	0.256	0.344	9.577	11.038	4.661
2022-09-25 15:00	8136017	8.380	-124.569	274.138	11.131	388.654	528.714	0.256	0.344	9.748	11.131	5.252
2022-09-25 15:15	8136917	8.394	-125.341	275.28	11.197	389.357	528.764	0.256	0.344	9.833	11.197	4.686
2022-09-25 15:30	8137817	8.395	-125.442	274.178	11.252	389.88	528.71	0.256	0.344	9.835	11.252	4.491
2022-09-25 15:45	8138717	8.399	-125.682	272.876	11.288	390.215	528.673	0.256	0.344	9.913	11.288	4.632
2022-09-25 16:00	8139617	8.395	-125.439	273.177	11.295	390.329	528.728	0.256	0.344	9.919	11.295	4.588
2022-09-25 16:15	8140517	8.403	-125.895	273.544	11.3	390.28	528.594	0.256	0.344	9.991	11.3	4.97
2022-09-25 16:30	8141417	8.412	-126.386	275.423	11.316	390.621	528.848	0.256	0.344	10.007	11.316	4.464
2022-09-25 16:45	8142317	8.421	-126.927	275.42	11.341	390.69	528.597	0.256	0.344	10.119	11.341	4.763
2022-09-25 17:00	8143217	8.410	-126.281	273.778	11.35	390.662	528.437	0.256	0.343	10.050	11.35	4.372
2022-09-25 17:15	8144117	8.418	-126.765	274.46	11.343	390.614	528.458	0.256	0.343	10.040	11.343	5.205
2022-09-25 17:30	8145017	8.414	-126.55	274.309	11.353	390.714	528.458	0.256	0.343	10.016	11.353	5.319
2022-09-25 17:45	8145917	8.421	-126.917	273.809	11.369	390.763	528.31	0.256	0.343	10.053	11.369	4.774
2022-09-25 18:00	8146817	8.409	-126.278	271.453	11.36	390.715	528.37	0.256	0.343	10.091	11.36	4.388
2022-09-25 18:15	8147717	8.431	-127.497	271.739	11.384	390.994	528.419	0.256	0.343	10.213	11.384	4.48
2022-09-25 18:30	8148617	8.427	-127.275	274.095	11.39	391.082	528.45	0.256	0.343	10.202	11.39	4.105
2022-09-25 18:45	8149517	8.429	-127.385	274.362	11.381	390.901	528.333	0.256	0.343	10.161	11.381	5.899
2022-09-25 19:00	8150417	8.416	-126.636	274.893	11.334	390.241	528.077	0.256	0.343	10.124	11.334	4.565
2022-09-25 19:15	8151317	8.419	-126.834	277.707	11.359	390.683	528.334	0.256	0.343	10.005	11.359	5.023
2022-09-25 19:30	8152217	8.413	-126.488	278.005	11.371	390.959	528.552	0.256	0.344	9.916	11.371	4.617
2022-09-25 19:45	8153117	8.403	-125.947	278.169	11.376	391.126	528.704	0.256	0.344	9.798	11.376	4.769
2022-09-25 20:00	8154017	8.372	-124.23	275.85	11.389	391.499	529.032	0.256	0.344	9.669	11.389	4.081
2022-09-25 20:15	8154917	8.399	-125.737	268.361	11.402	391.757	529.209	0.256	0.344	9.583	11.402	3.363
2022-09-25 20:30	8155817	8.376	-124.452	273.005	11.414	392.059	529.448	0.256	0.344	9.442	11.414	4.071
2022-09-25 20:45	8156717	8.372	-124.252	275.249	11.433	392.284	529.484	0.256	0.344	9.412	11.433	3.565
2022-09-25 21:00	8157617	8.347	-122.871	276.92	11.458	392.363	529.262	0.256	0.344	9.265	11.458	3.944
2022-09-25 21:15	8158517	8.323	-121.613	279.097	11.526	392.982	529.166	0.256	0.344	9.206	11.526	3.699
2022-09-25 21:30	8159417	8.291	-119.865	280.613	11.61	393.971	529.353	0.256	0.344	9.294	11.61	3.364
2022-09-25 21:45	8160317	8.307	-120.788	279.681	11.696	394.931	529.469	0.256	0.344	9.259	11.696	3.476
2022-09-25 22:00	8161217	8.303	-120.611	277.926	11.765	395.979	529.941	0.257	0.344	9.211	11.765	3.852
2022-09-25 22:15	8162117	8.296	-120.265	277.476	11.823	396.911	530.402	0.257	0.345	9.233	11.823	3.447
2022-09-25 22:30	8163017	8.284	-119.588	280.163	11.896	397.792	530.591	0.257	0.345	9.212	11.896	3.391
2022-09-25 22:45	8163917	8.280	-119.398	281.145	11.957	398.535	530.757	0.257	0.345	9.082	11.957	3.439

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-25 23:00	8164817	8.284	-119.662	277.819	12.005	398.655	530.276	0.257	0.345	9.057	12.005	2.988
2022-09-25 23:15	8165717	8.282	-119.555	278.875	12.038	399.07	530.38	0.257	0.345	8.898	12.038	3.146
2022-09-25 23:30	8166617	8.252	-117.915	281.383	12.058	399.462	530.626	0.257	0.345	8.709	12.058	2.735
2022-09-25 23:45	8167517	8.279	-119.395	280.201	12.067	399.57	530.648	0.257	0.345	8.657	12.067	3.113
2022-09-26 00:00	8168417	8.309	-121.074	278.074	12.05	399.292	530.509	0.257	0.345	8.882	12.05	3.344
2022-09-26 00:15	8169317	8.289	-119.953	278.343	12.048	399.732	531.129	0.257	0.345	8.809	12.048	2.789
2022-09-26 00:30	8170217	8.253	-117.974	280.792	12.051	399.925	531.342	0.257	0.345	8.595	12.051	2.528
2022-09-26 00:45	8171117	8.230	-116.677	283.801	12.054	400.045	531.462	0.258	0.345	8.412	12.054	2.622
2022-09-26 01:00	8172017	8.227	-116.529	285.436	12.051	399.865	531.258	0.257	0.345	8.198	12.051	3.286
2022-09-26 01:15	8172917	8.247	-117.621	285.858	12.049	399.985	531.448	0.258	0.345	8.303	12.049	2.473
2022-09-26 01:30	8173817	8.269	-118.849	284.456	12.034	399.543	531.066	0.257	0.345	8.403	12.034	2.579
2022-09-26 01:45	8174717	8.291	-120.044	281.61	12.018	399.172	530.776	0.257	0.345	8.585	12.018	2.99
2022-09-26 02:00	8175618	8.316	-121.41	277.84	11.986	399.044	531.049	0.257	0.345	8.586	11.986	3.103
2022-09-26 02:15	8176518	8.278	-119.3	279.6	11.978	399.081	531.195	0.257	0.345	8.452	11.978	2.44
2022-09-26 02:30	8177418	8.253	-117.941	283.362	11.957	398.716	530.996	0.257	0.345	8.381	11.957	2.758
2022-09-26 02:45	8178318	8.256	-118.058	283.081	11.922	398.023	530.546	0.257	0.345	8.466	11.922	2.869
2022-09-26 03:00	8179218	8.278	-119.269	280.863	11.884	397.883	530.875	0.257	0.345	8.654	11.884	2.726
2022-09-26 03:15	8180118	8.280	-119.359	282.795	11.885	398.156	531.232	0.257	0.345	8.427	11.885	2.566
2022-09-26 03:30	8181018	8.266	-118.585	282.518	11.861	397.951	531.279	0.257	0.345	8.166	11.861	2.409
2022-09-26 03:45	8181918	8.251	-117.781	281.605	11.84	397.874	531.464	0.257	0.345	8.098	11.84	2.627
2022-09-26 04:00	8182818	8.272	-118.88	279.95	11.798	397.332	531.301	0.257	0.345	8.187	11.798	2.715
2022-09-26 04:15	8183718	8.269	-118.744	279.862	11.779	397.255	531.462	0.257	0.345	8.148	11.779	2.466
2022-09-26 04:30	8184618	8.272	-118.89	283.906	11.75	396.829	531.288	0.257	0.345	8.083	11.75	2.92
2022-09-26 04:45	8185518	8.295	-120.113	283.465	11.711	396.372	531.204	0.257	0.345	8.227	11.711	2.869
2022-09-26 05:00	8186418	8.320	-121.505	277.302	11.628	395.344	530.949	0.257	0.345	8.833	11.628	5.502
2022-09-26 05:15	8187318	8.271	-118.761	274.421	11.634	395.433	530.987	0.257	0.345	8.789	11.634	3.638
2022-09-26 05:30	8188218	8.288	-119.736	275.058	11.626	395.526	531.226	0.257	0.345	8.598	11.626	2.736
2022-09-26 05:45	8189118	8.271	-118.797	275.408	11.623	395.43	531.131	0.257	0.345	8.435	11.623	2.877
2022-09-26 06:00	8190018	8.271	-118.756	275.223	11.573	395.033	531.282	0.257	0.345	8.383	11.573	2.891
2022-09-26 06:15	8190918	8.274	-118.942	277.197	11.552	394.755	531.191	0.257	0.345	8.223	11.552	3.755
2022-09-26 06:30	8191818	8.290	-119.76	279.319	11.511	394.394	531.27	0.257	0.345	8.260	11.511	3.732
2022-09-26 06:45	8192718	8.291	-119.805	279.428	11.458	393.91	531.341	0.257	0.345	8.209	11.458	3.876
2022-09-26 07:00	8193618	8.255	-117.798	278.351	11.429	393.697	531.458	0.257	0.345	8.244	11.429	3.793
2022-09-26 07:15	8194518	8.279	-119.128	281.359	11.397	393.284	531.328	0.257	0.345	8.123	11.397	4.385
2022-09-26 07:30	8195418	8.240	-116.951	281.035	11.368	392.928	531.249	0.257	0.345	8.251	11.368	3.745
2022-09-26 07:45	8196318	8.241	-117.028	280.871	11.338	392.633	531.258	0.257	0.345	8.298	11.338	5.021
2022-09-26 08:00	8197218	8.249	-117.457	278.486	11.288	392.174	531.333	0.257	0.345	8.328	11.288	3.758
2022-09-26 08:15	8198118	8.275	-118.861	280.148	11.257	391.765	531.199	0.257	0.345	8.160	11.257	3.809
2022-09-26 08:30	8199018	8.264	-118.246	282.191	11.217	391.394	531.253	0.257	0.345	8.255	11.217	3.474
2022-09-26 08:45	8199918	8.284	-119.286	282.261	11.188	391.092	531.234	0.257	0.345	8.282	11.188	3.335
2022-09-26 09:00	8200818	8.246	-117.235	283.848	11.162	390.842	531.255	0.257	0.345	8.342	11.162	3.451
2022-09-26 09:15	8201718	8.262	-118.079	284.833	11.149	390.635	531.155	0.257	0.345	8.227	11.149	6.656
2022-09-26 09:30	8202618	8.263	-118.124	284.29	11.126	390.294	531.011	0.257	0.345	8.284	11.126	3.434
2022-09-26 09:45	8203518	8.272	-118.608	282.501	11.102	390.062	531.025	0.257	0.345	8.376	11.102	3.387
2022-09-26 10:00	8204418	8.268	-118.389	280.604	11.082	390.01	531.227	0.257	0.345	8.392	11.082	3.562
2022-09-26 10:15	8205318	8.249	-117.333	281.982	11.079	390.037	531.306	0.257	0.345	8.256	11.079	2.956
2022-09-26 10:30	8206218	8.258	-117.865	284.335	11.082	390.02	531.243	0.257	0.345	8.292	11.082	2.849
2022-09-26 10:45	8207118	8.244	-117.061	285.615	11.093	390.129	531.24	0.257	0.345	8.086	11.093	2.858

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-26 11:00	8208018	8.242	-116.942	285.608	11.1	390.216	531.255	0.257	0.345	7.969	11.1	2.743
2022-09-26 11:15	8208918	8.247	-117.257	285.281	11.113	390.399	531.323	0.257	0.345	8.068	11.113	2.749
2022-09-26 11:30	8209818	8.207	-115.042	285.553	11.131	390.348	531.014	0.257	0.345	7.927	11.131	2.616
2022-09-26 11:45	8210718	8.209	-115.151	285.527	11.154	390.91	531.463	0.257	0.345	8.066	11.154	2.325
2022-09-26 12:00	8211618	8.206	-115.016	284.485	11.167	391.239	531.725	0.257	0.346	7.814	11.167	2.634
2022-09-26 12:15	8212518	8.181	-113.657	286.519	11.186	391.537	531.87	0.257	0.346	7.878	11.186	2.301
2022-09-26 12:30	8213418	8.164	-112.731	289.404	11.205	391.844	532.02	0.257	0.346	7.678	11.205	2.006
2022-09-26 12:45	8214318	8.157	-112.355	291.142	11.229	392.148	532.099	0.258	0.346	7.541	11.229	2.078
2022-09-26 13:00	8215218	8.156	-112.302	291.33	11.27	392.323	531.772	0.257	0.346	7.489	11.27	2.56
2022-09-26 13:15	8216118	8.145	-111.74	292.432	11.321	392.51	531.332	0.257	0.345	7.637	11.321	2.408
2022-09-26 13:30	8217018	8.160	-112.572	291.29	11.379	393.235	531.516	0.257	0.345	7.669	11.379	2.94
2022-09-26 13:45	8217918	8.159	-112.567	288.45	11.457	394.256	531.825	0.257	0.346	7.583	11.457	2.67
2022-09-26 14:00	8218818	8.158	-112.493	286.593	11.517	394.779	531.705	0.257	0.346	7.424	11.517	2.024
2022-09-26 14:15	8219718	8.154	-112.3	288.972	11.588	395.401	531.578	0.257	0.346	7.389	11.588	2.056
2022-09-26 14:30	8220618	8.149	-112.097	291.197	11.672	396.273	531.6	0.257	0.346	7.265	11.672	2.009
2022-09-26 14:45	8221518	8.153	-112.348	291.63	11.733	396.832	531.524	0.257	0.345	7.502	11.733	2.728
2022-09-26 15:00	8222418	8.194	-114.591	289.976	11.809	397.059	530.786	0.257	0.345	7.924	11.809	3.069
2022-09-26 15:15	8223318	8.196	-114.779	288.09	11.898	397.746	530.509	0.257	0.345	8.157	11.898	2.463
2022-09-26 15:30	8224218	8.221	-116.136	286.776	11.955	398.491	530.73	0.257	0.345	8.114	11.955	2.198
2022-09-26 15:45	8225118	8.240	-117.202	285.057	12.003	398.905	530.637	0.257	0.345	8.277	12.003	2.524
2022-09-26 16:00	8226018	8.243	-117.409	284.259	12.031	398.972	530.343	0.257	0.345	8.273	12.031	2.553
2022-09-26 16:15	8226918	8.255	-118.055	286.547	12.056	398.924	529.949	0.257	0.344	8.565	12.056	2.428
2022-09-26 16:30	8227818	8.309	-121.064	286.612	12.1	398.617	528.949	0.256	0.344	8.284	12.1	2.647
2022-09-26 16:45	8228718	8.372	-124.552	284.781	12.117	398.526	528.6	0.256	0.344	8.536	12.117	2.597
2022-09-26 17:00	8229618	8.352	-123.432	282.954	12.125	399.148	529.314	0.257	0.344	8.855	12.125	2.683
2022-09-26 17:15	8230518	8.407	-126.5	277.142	12.134	399.629	529.829	0.257	0.344	8.925	12.134	2.569
2022-09-26 17:30	8231418	8.429	-127.683	275.53	12.142	399.856	530.027	0.257	0.345	8.904	12.142	2.808
2022-09-26 17:45	8232318	8.425	-127.501	274.774	12.165	399.909	529.787	0.257	0.344	8.949	12.165	2.482
2022-09-26 18:00	8233218	8.357	-123.739	276.906	12.146	399.195	529.089	0.256	0.344	9.188	12.146	2.413
2022-09-26 18:15	8234118	8.383	-125.175	277.082	12.128	398.924	528.975	0.256	0.344	9.270	12.128	2.335
2022-09-26 18:30	8235018	8.391	-125.597	278.42	12.113	398.772	528.971	0.256	0.344	9.276	12.113	2.385
2022-09-26 18:45	8235918	8.383	-125.127	279.526	12.069	398.294	528.929	0.256	0.344	9.374	12.069	2.441
2022-09-26 19:00	8236818	8.378	-124.879	279.776	12.045	398.376	529.356	0.256	0.344	9.481	12.045	3.078
2022-09-26 19:15	8237718	8.393	-125.661	278.01	12.038	398.466	529.575	0.257	0.344	9.382	12.038	2.446
2022-09-26 19:30	8238618	8.399	-125.988	277.769	12.006	398.141	529.57	0.257	0.344	9.303	12.006	2.42
2022-09-26 19:45	8239518	8.380	-124.931	277.003	11.985	397.709	529.285	0.256	0.344	9.063	11.985	2.383
2022-09-26 20:00	8240418	8.337	-122.533	272.39	11.954	397.707	529.69	0.257	0.344	8.920	11.954	2.279
2022-09-26 20:15	8241318	8.365	-124.078	276.136	11.934	397.407	529.562	0.257	0.344	8.965	11.934	2.563
2022-09-26 20:30	8242218	8.342	-122.824	280.518	11.924	397.394	529.681	0.257	0.344	8.829	11.924	2.316
2022-09-26 20:45	8243118	8.343	-122.883	282.01	11.908	397.274	529.744	0.257	0.344	8.675	11.908	2.154
2022-09-26 21:00	8244018	8.307	-120.85	281.872	11.888	397.395	530.167	0.257	0.345	8.647	11.888	2.488
2022-09-26 21:15	8244918	8.287	-119.796	284.07	11.887	397.544	530.388	0.257	0.345	8.548	11.887	2.088
2022-09-26 21:30	8245818	8.270	-118.823	286.175	11.884	397.341	530.158	0.257	0.345	8.571	11.884	2.367
2022-09-26 21:45	8246718	8.287	-119.762	285.403	11.879	397.52	530.458	0.257	0.345	8.455	11.879	2.21
2022-09-26 22:00	8247618	8.246	-117.497	284.027	11.873	398.37	531.681	0.258	0.346	8.274	11.873	2.315
2022-09-26 22:15	8248518	8.275	-119.104	285.205	11.871	398.612	532.023	0.258	0.346	8.088	11.871	2.302
2022-09-26 22:30	8249418	8.237	-117.028	287.53	11.874	398.863	532.316	0.258	0.346	7.950	11.874	1.965
2022-09-26 22:45	8250318	8.215	-115.807	288.674	11.879	399.139	532.621	0.258	0.346	7.880	11.879	1.886

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-26 23:00	8251218	8.196	-114.779	288.963	11.883	398.621	531.869	0.258	0.346	7.690	11.883	2.108
2022-09-26 23:15	8252118	8.184	-114.083	289.449	11.897	398.847	531.986	0.258	0.346	7.644	11.897	2.019
2022-09-26 23:30	8253018	8.177	-113.714	290.195	11.913	398.884	531.813	0.258	0.346	7.558	11.913	1.919
2022-09-26 23:45	8253918	8.172	-113.468	290.777	11.934	398.717	531.307	0.257	0.345	7.677	11.934	1.971
2022-09-27 00:00	8254818	8.175	-113.652	288.614	11.957	399.378	531.881	0.258	0.346	7.727	11.957	2.052
2022-09-27 00:15	8255718	8.186	-114.222	289.063	11.98	399.345	531.52	0.258	0.345	7.903	11.98	1.948
2022-09-27 00:30	8256618	8.192	-114.61	290.822	11.999	399.62	531.632	0.258	0.346	7.683	11.999	1.785
2022-09-27 00:45	8257518	8.218	-116.034	292.346	12.014	399.802	531.68	0.258	0.346	7.589	12.014	2.02
2022-09-27 01:00	8258418	8.171	-113.423	292.143	12.017	399.815	531.658	0.258	0.346	7.562	12.017	1.924
2022-09-27 01:15	8259318	8.263	-118.518	290.465	12.016	399.688	531.494	0.258	0.345	7.406	12.016	1.987
2022-09-27 01:30	8260218	8.307	-120.904	287.744	12.006	399.53	531.421	0.258	0.345	7.312	12.006	2.115
2022-09-27 01:45	8261118	8.355	-123.587	284.261	11.995	399.325	531.299	0.257	0.345	7.338	11.995	2.189
2022-09-27 02:00	8262018	8.268	-118.74	283.181	11.967	398.767	530.939	0.257	0.345	7.561	11.967	1.991
2022-09-27 02:15	8262918	8.297	-120.342	287.165	11.94	397.838	530.062	0.257	0.345	7.694	11.94	2.739
2022-09-27 02:30	8263818	8.315	-121.315	285.477	11.885	397.398	530.221	0.257	0.345	7.732	11.885	2.66
2022-09-27 02:45	8264718	8.320	-121.598	283.772	11.887	397.42	530.224	0.257	0.345	8.093	11.887	2.385
2022-09-27 03:00	8265618	8.267	-118.635	285.882	11.846	397.554	530.949	0.257	0.345	8.091	11.846	2.852
2022-09-27 03:15	8266518	8.274	-119.033	282.828	11.837	397.587	531.118	0.257	0.345	7.944	11.837	2.325
2022-09-27 03:30	8267418	8.262	-118.375	284.297	11.813	397.45	531.26	0.257	0.345	7.679	11.813	2.414
2022-09-27 03:45	8268318	8.260	-118.225	284.144	11.785	397.263	531.396	0.257	0.345	7.552	11.785	2.206
2022-09-27 04:00	8269218	8.229	-116.494	285.496	11.719	396.26	530.94	0.257	0.345	7.526	11.719	2.177
2022-09-27 04:15	8270118	8.251	-117.71	285.393	11.681	395.626	530.602	0.257	0.345	7.792	11.681	2.306
2022-09-27 04:30	8271018	8.251	-117.71	286.998	11.674	395.526	530.565	0.257	0.345	7.841	11.674	2.345
2022-09-27 04:45	8271918	8.240	-117.087	288.285	11.613	394.781	530.407	0.257	0.345	7.798	11.613	2.614
2022-09-27 05:00	8272818	8.226	-116.277	289.089	11.582	395.165	531.343	0.257	0.345	7.954	11.582	2.515
2022-09-27 05:15	8273718	8.248	-117.502	287.933	11.563	395.083	531.492	0.257	0.345	7.751	11.563	2.512
2022-09-27 05:30	8274618	8.243	-117.211	287.976	11.502	394.305	531.268	0.257	0.345	7.923	11.502	2.801
2022-09-27 05:45	8275518	8.229	-116.417	286.595	11.457	393.818	531.233	0.257	0.345	7.949	11.457	2.861
2022-09-27 06:00	8276418	8.243	-117.159	284.082	11.378	392.989	531.197	0.257	0.345	8.027	11.378	2.914
2022-09-27 06:15	8277318	8.227	-116.229	284.13	11.357	392.621	530.992	0.257	0.345	8.040	11.357	2.92
2022-09-27 06:30	8278218	8.236	-116.699	285.479	11.305	392.144	531.06	0.257	0.345	8.108	11.305	2.545
2022-09-27 06:45	8279118	8.225	-116.081	286.242	11.276	391.855	531.061	0.257	0.345	8.096	11.276	2.791
2022-09-27 07:00	8280018	8.229	-116.332	287.53	11.227	391.489	531.245	0.257	0.345	8.114	11.227	3.467
2022-09-27 07:15	8280918	8.223	-115.995	289.656	11.213	391.245	531.107	0.257	0.345	8.047	11.213	2.809
2022-09-27 07:30	8281818	8.229	-116.296	289.788	11.169	390.861	531.183	0.257	0.345	8.036	11.169	2.941
2022-09-27 07:45	8282718	8.237	-116.701	289.225	11.147	390.468	530.959	0.257	0.345	8.084	11.147	2.865
2022-09-27 08:00	8283618	8.249	-117.335	285.546	11.085	389.83	530.942	0.257	0.345	8.182	11.085	2.768
2022-09-27 08:15	8284518	8.247	-117.249	286.361	11.07	389.673	530.938	0.257	0.345	8.067	11.07	2.552
2022-09-27 08:30	8285418	8.239	-116.78	286.702	11.039	389.313	530.87	0.257	0.345	8.220	11.039	2.377
2022-09-27 08:45	8286318	8.245	-117.083	288.972	11.001	388.829	530.733	0.257	0.345	8.230	11.001	2.501
2022-09-27 09:00	8287218	8.242	-116.894	288.305	10.953	388.476	530.915	0.257	0.345	8.258	10.953	2.953
2022-09-27 09:15	8288118	8.241	-116.88	290.093	10.956	388.461	530.855	0.257	0.345	8.240	10.956	2.608
2022-09-27 09:30	8289018	8.236	-116.56	290.076	10.939	388.316	530.895	0.257	0.345	8.177	10.939	2.788
2022-09-27 09:45	8289918	8.245	-117.059	288.688	10.935	388.308	530.943	0.257	0.345	8.370	10.935	2.488
2022-09-27 10:00	8290818	8.261	-117.91	287.177	10.92	387.969	530.688	0.257	0.345	8.377	10.92	2.759
2022-09-27 10:15	8291718	8.266	-118.196	286.593	10.916	387.937	530.691	0.257	0.345	8.410	10.916	2.587
2022-09-27 10:30	8292618	8.248	-117.207	288.531	10.922	388.005	530.705	0.257	0.345	8.300	10.922	2.463
2022-09-27 10:45	8293518	8.253	-117.519	289.649	10.932	388.189	530.817	0.257	0.345	8.132	10.932	2.323

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-27 11:00	8294418	8.235	-116.527	289.606	10.95	388.261	530.669	0.257	0.345	8.129	10.95	2.378
2022-09-27 11:15	8295318	8.249	-117.319	290.1	10.972	388.556	530.767	0.257	0.345	8.273	10.972	2.228
2022-09-27 11:30	8296218	8.226	-116.069	290.405	11.001	388.789	530.687	0.257	0.345	8.202	11.001	2.216
2022-09-27 11:45	8297118	8.203	-114.815	290.295	11.029	389.152	530.787	0.257	0.345	8.071	11.029	2.099
2022-09-27 12:00	8298018	8.185	-113.833	288.383	11.055	389.552	530.98	0.257	0.345	8.110	11.055	2.631
2022-09-27 12:15	8298918	8.204	-114.846	288.402	11.08	389.915	531.122	0.257	0.345	8.031	11.08	2.55
2022-09-27 12:30	8299818	8.191	-114.148	290.028	11.105	390.337	531.36	0.257	0.345	7.816	11.105	2.077
2022-09-27 12:45	8300718	8.171	-113.056	292.012	11.137	390.794	531.534	0.257	0.345	7.631	11.137	1.882
2022-09-27 13:00	8301618	8.164	-112.724	292.67	11.176	390.893	531.13	0.257	0.345	7.492	11.176	2.361
2022-09-27 13:15	8302518	8.166	-112.839	293.192	11.227	391.512	531.273	0.257	0.345	7.619	11.227	2.293
2022-09-27 13:30	8303418	8.162	-112.672	293.094	11.289	392.19	531.33	0.257	0.345	7.751	11.289	1.974
2022-09-27 13:45	8304318	8.153	-112.181	291.943	11.371	392.931	531.214	0.257	0.345	7.705	11.371	1.963
2022-09-27 14:00	8305218	8.162	-112.7	290.655	11.449	393.751	531.254	0.257	0.345	7.548	11.449	2.159
2022-09-27 14:15	8306118	8.163	-112.793	291.29	11.538	394.35	530.84	0.257	0.345	7.552	11.538	1.973
2022-09-27 14:30	8307018	8.166	-113.008	291.414	11.631	395.238	530.769	0.257	0.345	7.641	11.631	1.928
2022-09-27 14:45	8307918	8.175	-113.511	290.214	11.718	396.118	530.769	0.257	0.345	7.681	11.718	2.514
2022-09-27 15:00	8308818	8.183	-114.009	289.606	11.806	396.94	530.674	0.257	0.345	7.685	11.806	2.218
2022-09-27 15:15	8309718	8.210	-115.564	289.849	11.908	397.439	529.959	0.257	0.344	7.823	11.908	2.328
2022-09-27 15:30	8310618	8.244	-117.438	288.419	11.971	397.951	529.787	0.257	0.344	8.085	11.971	2.475
2022-09-27 15:45	8311518	8.306	-120.859	280.21	12.007	398.477	530.012	0.257	0.345	8.560	12.007	2.54
2022-09-27 16:00	8312418	8.306	-120.893	278.227	12.019	398.222	529.507	0.257	0.344	8.860	12.019	2.058
2022-09-27 16:15	8313319	8.335	-122.457	278.963	12.031	397.697	528.652	0.256	0.344	8.957	12.031	2.498
2022-09-27 16:30	8314219	8.334	-122.447	280.036	12.063	398.116	528.776	0.256	0.344	9.106	12.063	2.57
2022-09-27 16:45	8315119	8.352	-123.451	280.811	12.07	397.922	528.429	0.256	0.343	9.210	12.07	2.665
2022-09-27 17:00	8316019	8.365	-124.135	278.234	12.084	398.397	528.871	0.256	0.344	9.471	12.084	2.433
2022-09-27 17:15	8316919	8.377	-124.817	278.165	12.071	398.744	529.501	0.257	0.344	9.564	12.071	2.247
2022-09-27 17:30	8317819	8.379	-124.891	278.322	12.068	398.721	529.516	0.257	0.344	9.580	12.068	2.098
2022-09-27 17:45	8318719	8.368	-124.319	278.064	12.063	398.674	529.518	0.257	0.344	9.470	12.063	2.286
2022-09-27 18:00	8319619	8.332	-122.316	277.325	12.018	398.138	529.409	0.257	0.344	9.444	12.018	2.303
2022-09-27 18:15	8320519	8.361	-123.918	277.499	12.021	397.723	528.823	0.256	0.344	9.381	12.021	2.286
2022-09-27 18:30	8321419	8.324	-121.856	279.741	12.027	398.204	529.376	0.257	0.344	9.291	12.027	2.175
2022-09-27 18:45	8322319	8.320	-121.632	281.579	12.023	398.112	529.307	0.256	0.344	9.149	12.023	2.562
2022-09-27 19:00	8323219	8.310	-121.107	281.944	12.024	398.415	529.694	0.257	0.344	9.049	12.024	2.329
2022-09-27 19:15	8324119	8.326	-121.961	279.977	12.026	398.509	529.798	0.257	0.344	8.990	12.026	2.132
2022-09-27 19:30	8325019	8.324	-121.853	280.353	12.017	398.399	529.769	0.257	0.344	8.983	12.017	2.131
2022-09-27 19:45	8325919	8.325	-121.927	279.621	11.984	397.989	529.661	0.257	0.344	8.715	11.984	2.435
2022-09-27 20:00	8326819	8.289	-119.929	279.242	11.958	397.499	529.364	0.256	0.344	8.891	11.958	2.153
2022-09-27 20:15	8327719	8.327	-121.982	281.3	11.948	397.232	529.144	0.256	0.344	8.951	11.948	2.085
2022-09-27 20:30	8328619	8.295	-120.246	284.983	11.953	397.631	529.611	0.257	0.344	8.774	11.953	2.103
2022-09-27 20:45	8329519	8.292	-120.07	287.456	11.95	397.84	529.923	0.257	0.344	8.546	11.95	1.875
2022-09-27 21:00	8330419	8.252	-117.893	288.786	11.953	398.281	530.478	0.257	0.345	8.301	11.953	1.973
2022-09-27 21:15	8331319	8.236	-117.006	288.724	11.965	398.36	530.42	0.257	0.345	8.060	11.965	1.811
2022-09-27 21:30	8332219	8.209	-115.488	290.36	11.977	398.527	530.482	0.257	0.345	7.982	11.977	1.827
2022-09-27 21:45	8333119	8.198	-114.915	290.696	11.986	398.742	530.643	0.257	0.345	7.908	11.986	1.748
2022-09-27 22:00	8334019	8.184	-114.117	291.619	11.993	399.006	530.903	0.257	0.345	7.916	11.993	1.834
2022-09-27 22:15	8334919	8.194	-114.675	292.615	11.999	399.117	530.968	0.257	0.345	7.844	11.999	1.793
2022-09-27 22:30	8335819	8.170	-113.378	294.496	11.999	399.146	531.005	0.257	0.345	7.629	11.999	1.691
2022-09-27 22:45	8336719	8.176	-113.673	296.087	11.993	399.083	531.005	0.257	0.345	7.470	11.993	1.744

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-27 23:00	8337619	8.193	-114.632	293.905	11.981	398.927	530.955	0.257	0.345	7.449	11.981	1.988
2022-09-27 23:15	8338519	8.232	-116.775	290.102	11.975	398.985	531.109	0.257	0.345	7.490	11.975	1.824
2022-09-27 23:30	8339419	8.220	-116.103	282.816	11.957	398.812	531.129	0.257	0.345	7.401	11.957	1.913
2022-09-27 23:45	8340319	8.211	-115.604	283.691	11.924	398.647	531.354	0.257	0.345	7.350	11.924	1.945
2022-09-28 00:00	8341219	8.178	-113.75	283.138	11.882	398.096	531.18	0.257	0.345	7.395	11.882	2.017
2022-09-28 00:15	8342119	8.201	-114.999	282.606	11.857	397.639	530.91	0.257	0.345	7.638	11.857	1.993
2022-09-28 00:30	8343019	8.207	-115.335	283.77	11.838	397.276	530.688	0.257	0.345	7.820	11.838	2.127
2022-09-28 00:45	8343919	8.194	-114.62	285.999	11.79	396.661	530.516	0.257	0.345	7.759	11.79	1.917
2022-09-28 01:00	8344819	8.249	-117.605	286.08	11.747	396.599	531.017	0.257	0.345	7.947	11.747	2.778
2022-09-28 01:15	8345719	8.225	-116.298	283.994	11.753	396.841	531.26	0.257	0.345	7.982	11.753	2.268
2022-09-28 01:30	8346619	8.237	-116.959	285.041	11.719	396.455	531.209	0.257	0.345	7.752	11.719	2.084
2022-09-28 01:45	8347519	8.198	-114.787	284.766	11.669	396.062	531.36	0.257	0.345	7.621	11.669	2.8
2022-09-28 02:00	8348419	8.197	-114.729	284.838	11.635	395.659	531.274	0.257	0.345	7.734	11.635	2.869
2022-09-28 02:15	8349319	8.201	-114.901	284.919	11.604	394.95	530.755	0.257	0.345	7.875	11.604	2.195
2022-09-28 02:30	8350219	8.197	-114.675	287.341	11.584	394.814	530.841	0.257	0.345	7.891	11.584	2.378
2022-09-28 02:45	8351119	8.202	-114.927	287.441	11.551	394.493	530.854	0.257	0.345	7.831	11.551	2.142
2022-09-28 03:00	8352019	8.232	-116.56	287.456	11.48	394.033	531.213	0.257	0.345	7.913	11.48	2.781
2022-09-28 03:15	8352919	8.228	-116.341	287.894	11.443	393.665	531.22	0.257	0.345	8.212	11.443	2.732
2022-09-28 03:30	8353819	8.222	-115.976	286.602	11.408	393.396	531.33	0.257	0.345	8.236	11.408	2.373
2022-09-28 03:45	8354719	8.233	-116.606	285.691	11.381	392.919	531.062	0.257	0.345	8.214	11.381	2.92
2022-09-28 04:00	8355619	8.233	-116.56	282.399	11.313	392.331	531.193	0.257	0.345	8.245	11.313	2.513
2022-09-28 04:15	8356519	8.223	-115.993	283.798	11.296	392.013	530.998	0.257	0.345	8.130	11.296	2.478
2022-09-28 04:30	8357419	8.205	-114.975	286.285	11.261	391.982	531.438	0.257	0.345	8.088	11.261	2.358
2022-09-28 04:45	8358319	8.209	-115.197	287.47	11.226	391.393	531.129	0.257	0.345	8.063	11.226	2.172
2022-09-28 05:00	8359219	8.221	-115.869	287.656	11.189	391.24	531.429	0.257	0.345	8.276	11.189	2.581
2022-09-28 05:15	8360119	8.208	-115.156	289.168	11.189	391.187	531.349	0.257	0.345	8.110	11.189	2.398
2022-09-28 05:30	8361019	8.214	-115.445	290.157	11.151	390.542	531.006	0.257	0.345	7.935	11.151	2.946
2022-09-28 05:45	8361919	8.206	-115.006	288.791	11.098	389.778	530.695	0.257	0.345	8.249	11.098	3.316
2022-09-28 06:00	8362819	8.220	-115.736	286.9	11.014	389.263	531.155	0.257	0.345	8.312	11.014	2.987
2022-09-28 06:15	8363719	8.225	-115.983	287.701	10.986	388.57	530.591	0.257	0.345	8.193	10.986	2.784
2022-09-28 06:30	8364619	8.228	-116.136	288.796	10.967	388.606	530.907	0.257	0.345	8.259	10.967	2.593
2022-09-28 06:45	8365519	8.240	-116.789	289.556	10.952	388.529	531.001	0.257	0.345	8.166	10.952	2.53
2022-09-28 07:00	8366419	8.224	-115.898	289.764	10.942	388.667	531.327	0.257	0.345	8.125	10.942	2.875
2022-09-28 07:15	8367319	8.223	-115.886	289.506	10.939	388.513	531.164	0.257	0.345	8.038	10.939	2.646
2022-09-28 07:30	8368219	8.227	-116.088	290.324	10.932	388.598	531.376	0.257	0.345	8.028	10.932	2.441
2022-09-28 07:45	8369119	8.223	-115.855	291.027	10.917	388.274	531.143	0.257	0.345	8.063	10.917	2.996
2022-09-28 08:00	8370019	8.224	-115.874	288.083	10.894	388.106	531.232	0.257	0.345	8.048	10.894	2.9
2022-09-28 08:15	8370919	8.223	-115.814	289.335	10.878	387.912	531.194	0.257	0.345	7.959	10.878	2.377
2022-09-28 08:30	8371819	8.224	-115.857	289.954	10.865	387.806	531.229	0.257	0.345	8.020	10.865	2.472
2022-09-28 08:45	8372719	8.213	-115.249	290.789	10.854	387.859	531.45	0.257	0.345	7.952	10.854	2.294
2022-09-28 09:00	8373619	8.204	-114.784	291.235	10.836	387.473	531.172	0.257	0.345	7.912	10.836	2.636
2022-09-28 09:15	8374519	8.221	-115.724	293.338	10.818	387.095	530.902	0.257	0.345	8.013	10.818	2.412
2022-09-28 09:30	8375419	8.230	-116.158	292.15	10.797	386.91	530.938	0.257	0.345	8.269	10.797	2.576
2022-09-28 09:45	8376319	8.247	-117.097	290.643	10.779	386.722	530.941	0.257	0.345	8.383	10.779	3.712
2022-09-28 10:00	8377219	8.241	-116.751	288.941	10.772	386.644	530.93	0.257	0.345	8.410	10.772	2.473
2022-09-28 10:15	8378119	8.242	-116.856	289.492	10.771	386.605	530.892	0.257	0.345	8.176	10.771	2.471
2022-09-28 10:30	8379019	8.243	-116.861	289.938	10.766	386.514	530.828	0.257	0.345	8.221	10.766	2.284
2022-09-28 10:45	8379919	8.247	-117.116	290.515	10.761	386.441	530.796	0.257	0.345	8.201	10.761	2.292

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-28 11:00	8380819	8.234	-116.413	290.996	10.766	386.498	530.808	0.257	0.345	8.016	10.766	3.34
2022-09-28 11:15	8381719	8.263	-117.986	289.294	10.782	386.641	530.781	0.257	0.345	8.273	10.782	2.122
2022-09-28 11:30	8382619	8.251	-117.338	289.754	10.794	386.899	530.964	0.257	0.345	8.123	10.794	2.059
2022-09-28 11:45	8383519	8.227	-116.022	289.413	10.815	387.065	530.904	0.257	0.345	7.923	10.815	1.972
2022-09-28 12:00	8384419	8.196	-114.348	289.678	10.847	387.678	531.296	0.257	0.345	7.895	10.847	2.481
2022-09-28 12:15	8385319	8.192	-114.119	291.366	10.886	388.219	531.505	0.257	0.345	7.749	10.886	1.987
2022-09-28 12:30	8386219	8.172	-113.06	294.055	10.92	388.735	531.73	0.257	0.346	7.473	10.92	1.862
2022-09-28 12:45	8387119	8.164	-112.638	295.636	10.958	389.114	531.728	0.257	0.346	7.527	10.958	2.036
2022-09-28 13:00	8388019	8.145	-111.58	297.136	10.997	389.367	531.522	0.257	0.345	7.238	10.997	2.256
2022-09-28 13:15	8388919	8.144	-111.558	296.973	11.064	389.556	530.864	0.257	0.345	7.403	11.064	2.118
2022-09-28 13:30	8389819	8.159	-112.431	295.014	11.134	390.243	530.824	0.257	0.345	7.955	11.134	2.102
2022-09-28 13:45	8390719	8.166	-112.836	293.106	11.231	391.506	531.204	0.257	0.345	8.060	11.231	1.949
2022-09-28 14:00	8391619	8.157	-112.369	290.837	11.318	392.301	531.093	0.257	0.345	7.846	11.318	2.121
2022-09-28 14:15	8392519	8.169	-113.096	290.159	11.439	393.259	530.73	0.257	0.345	7.908	11.439	2.265
2022-09-28 14:30	8393419	8.173	-113.366	290.951	11.582	394.534	530.497	0.257	0.345	8.213	11.582	2.327
2022-09-28 14:45	8394319	8.173	-113.444	290.162	11.738	396.147	530.536	0.257	0.345	8.165	11.738	2.173
2022-09-28 15:00	8395219	8.193	-114.62	289.973	11.904	397.93	530.672	0.257	0.345	8.606	11.904	2.41
2022-09-28 15:15	8396119	8.185	-114.183	287.761	12.032	398.432	529.609	0.257	0.344	8.468	12.032	2.536
2022-09-28 15:30	8397019	8.360	-123.868	286.595	12.078	398.724	529.376	0.257	0.344	8.722	12.078	2.471
2022-09-28 15:45	8397919	8.362	-123.973	278.317	12.057	397.638	528.22	0.256	0.343	9.415	12.057	2.39
2022-09-28 16:00	8398819	8.369	-124.333	275.709	12.048	396.732	527.143	0.255	0.343	10.329	12.048	3.862
2022-09-28 16:15	8399719	8.415	-126.905	278.193	12.08	397.388	527.582	0.256	0.343	10.252	12.08	3.604
2022-09-28 16:30	8400619	8.404	-126.312	280.642	12.098	397.729	527.793	0.256	0.343	9.711	12.098	3.342
2022-09-28 16:45	8401519	8.406	-126.402	281.145	12.105	397.358	527.2	0.255	0.343	9.907	12.105	3.606
2022-09-28 17:00	8402419	8.422	-127.325	280.41	12.098	396.555	526.238	0.255	0.342	10.138	12.098	2.225
2022-09-28 17:15	8403319	8.461	-129.466	279.316	12.09	396.627	526.441	0.255	0.342	10.779	12.09	2.194
2022-09-28 17:30	8404219	8.434	-127.938	277.881	12.056	396.327	526.492	0.255	0.342	10.712	12.056	2.326
2022-09-28 17:45	8405119	8.448	-128.696	276.586	12.029	396.364	526.898	0.255	0.342	10.599	12.029	2.403
2022-09-28 18:00	8406019	8.413	-126.748	275.625	12.012	396.362	527.131	0.255	0.343	10.558	12.012	2.097
2022-09-28 18:15	8406919	8.422	-127.27	276.565	12.019	396.292	526.937	0.255	0.343	10.423	12.019	2.256
2022-09-28 18:30	8407819	8.403	-126.219	280.003	12.035	396.733	527.315	0.255	0.343	10.224	12.035	2.471
2022-09-28 18:45	8408719	8.404	-126.293	280.232	12.033	396.611	527.176	0.255	0.343	10.050	12.033	1.961
2022-09-28 19:00	8409619	8.377	-124.786	281.517	12.038	396.971	527.582	0.256	0.343	9.908	12.038	1.998
2022-09-28 19:15	8410519	8.396	-125.868	280.315	12.051	397.227	527.753	0.256	0.343	9.815	12.051	2.092
2022-09-28 19:30	8411419	8.402	-126.162	281.128	12.048	397.237	527.805	0.256	0.343	9.676	12.048	2.037
2022-09-28 19:45	8412319	8.399	-126.019	281.107	12.046	397.237	527.83	0.256	0.343	9.653	12.046	1.979
2022-09-28 20:00	8413219	8.352	-123.403	282.168	12.029	396.948	527.674	0.256	0.343	9.564	12.029	1.825
2022-09-28 20:15	8414119	8.384	-125.184	283.992	12.022	396.661	527.388	0.256	0.343	9.581	12.022	1.889
2022-09-28 20:30	8415019	8.377	-124.795	286.097	12.016	396.744	527.581	0.256	0.343	9.534	12.016	1.894
2022-09-28 20:45	8415919	8.388	-125.396	288.314	11.997	396.334	527.292	0.255	0.343	9.476	11.997	2.053
2022-09-28 21:00	8416819	8.353	-123.448	287.468	11.984	396.82	528.116	0.256	0.343	9.571	11.984	2.007
2022-09-28 21:15	8417719	8.375	-124.655	285.277	11.981	396.927	528.299	0.256	0.343	9.448	11.981	1.908
2022-09-28 21:30	8418619	8.336	-122.48	285.291	11.967	396.974	528.539	0.256	0.344	9.280	11.967	1.868
2022-09-28 21:45	8419519	8.314	-121.281	285.587	11.951	397.061	528.871	0.256	0.344	9.092	11.951	2.01
2022-09-28 22:00	8420419	8.280	-119.383	285.575	11.928	397.214	529.396	0.256	0.344	8.898	11.928	1.853
2022-09-28 22:15	8421319	8.347	-123.093	285.374	11.912	396.818	529.075	0.256	0.344	9.290	11.912	2.235
2022-09-28 22:30	8422219	8.308	-120.952	287.213	11.934	397.064	529.112	0.256	0.344	9.065	11.934	4.077
2022-09-28 22:45	8423119	8.310	-121.045	288.035	11.929	397.009	529.109	0.256	0.344	8.959	11.929	3.272

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-28 23:00	8424019	8.285	-119.696	287.577	11.933	397.156	529.242	0.256	0.344	8.911	11.933	3.347
2022-09-28 23:15	8424919	8.296	-120.263	287.279	11.914	397.084	529.399	0.256	0.344	8.862	11.914	2.95
2022-09-28 23:30	8425819	8.293	-120.113	286.059	11.884	396.907	529.575	0.257	0.344	8.967	11.884	2.619
2022-09-28 23:45	8426719	8.262	-118.365	286.996	11.858	396.988	530.035	0.257	0.345	8.858	11.858	2.468
2022-09-29 00:00	8427619	8.222	-116.16	288.5	11.83	397.313	530.845	0.257	0.345	8.540	11.83	2.5
2022-09-29 00:15	8428519	8.213	-115.654	290.117	11.821	397.661	531.431	0.257	0.345	8.193	11.821	2.2
2022-09-29 00:30	8429419	8.218	-115.972	292.372	11.833	397.641	531.24	0.257	0.345	7.967	11.833	2.787
2022-09-29 00:45	8430319	8.243	-117.352	291.747	11.898	397.795	530.565	0.257	0.345	9.156	11.898	2.679
2022-09-29 01:00	8431219	8.234	-117.009	292.205	12.245	400.478	529.466	0.257	0.344	8.621	12.245	3.038
2022-09-29 01:15	8432119	8.230	-116.92	275.637	12.654	403.956	528.604	0.256	0.344	9.183	12.654	2.706
2022-09-29 01:30	8433019	8.351	-123.703	256.516	12.787	405.45	528.797	0.257	0.344	9.499	12.787	2.937
2022-09-29 01:45	8433919	8.329	-122.464	255.324	12.833	406.114	529.061	0.257	0.344	9.268	12.833	2.792
2022-09-29 02:00	8434819	8.253	-118.306	264.67	12.85	406.674	529.563	0.257	0.344	8.863	12.85	2.823
2022-09-29 02:15	8435719	8.261	-118.728	267.491	12.877	407.182	529.878	0.257	0.344	8.668	12.877	2.664
2022-09-29 02:30	8436619	8.256	-118.449	271.174	12.883	407.415	530.093	0.257	0.345	8.548	12.883	2.894
2022-09-29 02:45	8437519	8.214	-116.141	273.818	12.802	406.466	529.935	0.257	0.344	8.393	12.802	2.476
2022-09-29 03:00	8438419	8.226	-116.699	273.141	12.61	405.257	530.892	0.257	0.345	8.320	12.61	3.158
2022-09-29 03:15	8439319	8.206	-115.571	274.607	12.562	404.824	530.963	0.258	0.345	8.235	12.562	2.484
2022-09-29 03:30	8440219	8.199	-115.178	277.456	12.517	404.467	531.099	0.258	0.345	8.266	12.517	2.351
2022-09-29 03:45	8441119	8.178	-113.959	279.392	12.421	403.727	531.405	0.258	0.345	8.281	12.421	2.208
2022-09-29 04:00	8442019	8.211	-115.726	278.851	12.202	401.363	531.213	0.257	0.345	8.121	12.202	2.192
2022-09-29 04:15	8442919	8.208	-115.464	283.407	12.034	399.086	530.455	0.257	0.345	8.234	12.034	2.61
2022-09-29 04:30	8443819	8.206	-115.345	284.642	11.937	398.368	530.8	0.257	0.345	8.233	11.937	2.322
2022-09-29 04:45	8444719	8.206	-115.292	288.846	11.866	397.837	531.059	0.257	0.345	8.255	11.866	2.389
2022-09-29 05:00	8445620	8.175	-113.609	290.195	11.846	398.396	532.077	0.258	0.346	8.058	11.846	2.892
2022-09-29 05:15	8446520	8.124	-110.805	293.538	11.861	398.703	532.285	0.258	0.346	7.705	11.861	2.343
2022-09-29 05:30	8447420	8.129	-111.029	292.942	11.832	398.525	532.436	0.258	0.346	7.462	11.832	2.039
2022-09-29 05:45	8448320	8.117	-110.404	292.913	11.819	398.428	532.483	0.258	0.346	7.312	11.819	2.516
2022-09-29 06:00	8449220	8.120	-110.548	292.329	11.794	398.333	532.698	0.258	0.346	7.141	11.794	1.96
2022-09-29 06:15	8450120	8.118	-110.404	293.764	11.768	398.66	533.494	0.258	0.347	7.084	11.768	1.962
2022-09-29 06:30	8451020	8.099	-109.386	297.016	11.768	398.569	533.366	0.258	0.347	6.901	11.768	2.131
2022-09-29 06:45	8451920	8.117	-110.359	297.934	11.758	397.999	532.738	0.258	0.346	6.748	11.758	2.162
2022-09-29 07:00	8452820	8.102	-109.515	298.814	11.781	398.38	532.941	0.258	0.346	6.793	11.781	1.998
2022-09-29 07:15	8453720	8.095	-109.169	299.2	11.818	398.504	532.603	0.258	0.346	6.974	11.818	2.063
2022-09-29 07:30	8454620	8.097	-109.31	298.437	11.871	399.283	532.915	0.258	0.346	6.977	11.871	2.105
2022-09-29 07:45	8455520	8.081	-108.466	298.199	11.946	399.757	532.534	0.258	0.346	6.928	11.946	2.008
2022-09-29 08:00	8456420	8.076	-108.194	297.474	12	400.458	532.732	0.258	0.346	6.876	12	2.684
2022-09-29 08:15	8457320	8.100	-109.52	297.326	12.039	400.845	532.726	0.258	0.346	7.084	12.039	2.609
2022-09-29 08:30	8458220	8.091	-109.046	297.987	12.053	400.915	532.627	0.258	0.346	6.994	12.053	2.484
2022-09-29 08:45	8459120	8.111	-110.137	298.549	12.034	400.492	532.32	0.258	0.346	6.760	12.034	2.377
2022-09-29 09:00	8460020	8.110	-110.095	298.33	12.02	400.701	532.795	0.258	0.346	6.838	12.02	2.152
2022-09-29 09:15	8460920	8.087	-108.824	297.82	12.016	400.819	533.002	0.258	0.346	6.818	12.016	1.937
2022-09-29 09:30	8461820	8.084	-108.616	295.972	11.998	400.712	533.095	0.258	0.347	6.798	11.998	1.97
2022-09-29 09:45	8462720	8.093	-109.148	295.104	12.004	400.746	533.064	0.258	0.346	6.754	12.004	2.016
2022-09-29 10:00	8463620	8.074	-108.085	294.36	12.009	401.071	533.43	0.259	0.347	***6.459***	12.009	2.209
2022-09-29 10:15	8464520	8.057	-107.136	295.793	12.021	401.343	533.624	0.259	0.347	***6.423***	12.021	2.152
2022-09-29 10:30	8465420	8.035	-105.934	296.721	12.037	401.554	533.697	0.259	0.347	***6.159***	12.037	2.073
2022-09-29 10:45	8466320	8.033	-105.832	297.522	12.044	401.653	533.723	0.259	0.347	***5.911***	12.044	2.031

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-29 11:00	8467220	8.027	-105.538	297.581	12.067	401.819	533.637	0.259	0.347	***5.899***	12.067	2.362
2022-09-29 11:15	8468120	8.035	-105.958	297.486	12.114	402.035	533.285	0.258	0.347	***6.041***	12.114	1.946
2022-09-29 11:30	8469020	8.027	-105.522	297.972	12.156	402.588	533.462	0.259	0.347	***6.020***	12.156	2.135
2022-09-29 11:45	8469920	8.028	-105.603	297.045	12.222	403.16	533.327	0.259	0.347	***6.045***	12.222	2.307
2022-09-29 12:00	8470820	8.029	-105.693	294.673	12.265	403.597	533.318	0.259	0.347	***6.076***	12.265	1.773
2022-09-29 12:15	8471720	8.042	-106.411	295.476	12.312	403.988	533.202	0.259	0.347	***6.136***	12.312	2.166
2022-09-29 12:30	8472620	8.033	-105.977	296.299	12.359	404.318	533.011	0.258	0.346	***6.305***	12.359	2.914
2022-09-29 12:45	8473520	8.057	-107.269	295.824	12.401	404.392	532.546	0.258	0.346	***6.459***	12.401	2.315
2022-09-29 13:00	8474420	8.082	-108.695	294.096	12.438	403.997	531.53	0.258	0.345	6.750	12.438	2.293
2022-09-29 13:15	8475320	8.110	-110.259	290.302	12.49	403.573	530.284	0.257	0.345	7.129	12.49	2.225
2022-09-29 13:30	8476220	8.111	-110.3	289.501	12.533	404.101	530.403	0.257	0.345	7.104	12.533	1.905
2022-09-29 13:45	8477120	8.122	-110.953	289.303	12.592	404.553	530.207	0.257	0.345	7.179	12.592	2.13
2022-09-29 14:00	8478020	8.143	-112.143	285.014	12.631	405.172	530.495	0.257	0.345	7.623	12.631	2.357
2022-09-29 14:15	8478920	8.138	-111.864	283.72	12.672	405.72	530.681	0.257	0.345	7.659	12.672	2.11
2022-09-29 14:30	8479820	8.108	-110.228	284.945	12.717	406.523	531.133	0.258	0.345	7.439	12.717	1.907
2022-09-29 14:45	8480720	8.116	-110.681	286.941	12.749	406.479	530.645	0.257	0.345	7.348	12.749	2.387
2022-09-29 15:00	8481620	8.183	-114.398	283.677	12.786	406.281	529.902	0.257	0.344	7.817	12.786	3.165
2022-09-29 15:15	8482520	8.174	-113.916	277.611	12.839	406.59	529.607	0.257	0.344	7.920	12.839	2.141
2022-09-29 15:30	8483420	8.140	-112.045	282.084	12.881	407.154	529.78	0.257	0.344	7.948	12.881	1.933
2022-09-29 15:45	8484320	8.176	-114.081	283.148	12.938	407.271	529.183	0.257	0.344	7.999	12.938	2.089
2022-09-29 16:00	8485220	8.187	-114.715	279.636	12.99	408.088	529.57	0.257	0.344	8.430	12.99	2.284
2022-09-29 16:15	8486120	8.206	-115.774	277.414	13.027	408.086	529.08	0.257	0.344	8.408	13.027	2.204
2022-09-29 16:30	8487020	8.208	-115.914	277.571	13.062	408.612	529.305	0.257	0.344	8.467	13.062	2.293
2022-09-29 16:45	8487920	8.193	-115.089	280.263	13.108	409.065	529.285	0.257	0.344	8.660	13.108	2.334
2022-09-29 17:00	8488820	8.201	-115.545	279.4	13.174	409.836	529.425	0.257	0.344	8.396	13.174	2.062
2022-09-29 17:15	8489720	8.175	-114.205	281.002	13.334	411.686	529.724	0.257	0.344	8.825	13.334	2.316
2022-09-29 17:30	8490620	8.146	-112.615	282.704	13.471	413.609	530.402	0.258	0.345	8.663	13.471	2.751
2022-09-29 17:45	8491520	8.155	-113.149	278.291	13.555	414.851	530.901	0.258	0.345	8.952	13.555	2.667
2022-09-29 18:00	8492420	8.184	-114.76	272.249	13.6	415.504	531.164	0.258	0.345	8.853	13.6	2.736
2022-09-29 18:15	8493320	8.184	-114.806	267.672	13.639	416.246	531.598	0.258	0.346	8.688	13.639	2.473
2022-09-29 18:30	8494220	8.187	-114.992	272.719	13.677	416.642	531.608	0.258	0.346	8.457	13.677	2.457
2022-09-29 18:45	8495120	8.184	-114.801	275.387	13.676	415.475	530.135	0.257	0.345	8.412	13.676	2.28
2022-09-29 19:00	8496020	8.273	-119.708	271.751	13.632	414.273	529.17	0.257	0.344	8.601	13.632	2.419
2022-09-29 19:15	8496920	8.304	-121.405	265.946	13.539	412.602	528.241	0.256	0.343	9.240	13.539	2.531
2022-09-29 19:30	8497820	8.371	-125.041	264.842	13.337	409.501	526.866	0.256	0.342	10.322	13.337	2.755
2022-09-29 19:45	8498720	8.366	-124.71	265.161	13.199	407.846	526.518	0.256	0.342	10.738	13.199	2.433
2022-09-29 20:00	8499620	8.341	-123.253	264.382	13.084	406.43	526.187	0.255	0.342	10.501	13.084	2.265
2022-09-29 20:15	8500520	8.322	-122.185	268.425	12.984	404.651	525.184	0.255	0.341	10.340	12.984	2.152
2022-09-29 20:30	8501420	8.307	-121.322	271.513	12.89	404.216	525.849	0.255	0.342	10.299	12.89	2.151
2022-09-29 20:45	8502320	8.281	-119.824	275.099	12.762	403.78	526.959	0.256	0.343	9.953	12.762	2.187
2022-09-29 21:00	8503220	8.270	-119.145	277.504	12.693	404.029	528.19	0.256	0.343	9.628	12.693	2.555
2022-09-29 21:15	8504120	8.232	-117.08	279.803	12.689	404.206	528.474	0.256	0.344	9.337	12.689	2.302
2022-09-29 21:30	8505020	8.206	-115.619	282.33	12.622	403.98	529.06	0.257	0.344	9.148	12.622	2.256
2022-09-29 21:45	8505920	8.179	-114.121	284.952	12.574	403.872	529.56	0.257	0.344	8.799	12.574	2.1
2022-09-29 22:00	8506820	8.172	-113.683	285.424	12.532	403.871	530.115	0.257	0.345	8.458	12.532	2.178
2022-09-29 22:15	8507720	8.184	-114.374	286.936	12.549	404.427	530.619	0.257	0.345	8.561	12.549	2.175
2022-09-29 22:30	8508620	8.199	-115.197	289.129	12.587	404.517	530.229	0.257	0.345	8.386	12.587	2.18
2022-09-29 22:45	8509520	8.182	-114.293	289.556	12.628	404.602	529.791	0.257	0.344	8.509	12.628	1.976

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-29 23:00	8510420	8.184	-114.379	289.611	12.652	404.622	529.499	0.257	0.344	8.370	12.652	1.921
2022-09-29 23:15	8511320	8.157	-112.929	290.174	12.677	404.742	529.331	0.257	0.344	8.377	12.677	1.893
2022-09-29 23:30	8512220	8.138	-111.861	291.166	12.677	404.793	529.392	0.257	0.344	8.171	12.677	2.011
2022-09-29 23:45	8513120	8.125	-111.179	290.477	12.677	404.947	529.603	0.257	0.344	8.062	12.677	1.918
2022-09-30 00:00	8514020	8.128	-111.289	289.036	12.663	405.466	530.463	0.257	0.345	7.950	12.663	1.952
2022-09-30 00:15	8514920	8.135	-111.673	291.361	12.659	406.213	531.488	0.258	0.345	7.819	12.659	2.236
2022-09-30 00:30	8515820	8.151	-112.562	292.117	12.652	406.599	532.086	0.258	0.346	7.741	12.652	2.206
2022-09-30 00:45	8516720	8.125	-111.125	291.604	12.635	406.785	532.558	0.258	0.346	7.802	12.635	1.994
2022-09-30 01:00	8517620	8.124	-111.053	291.442	12.614	405.93	531.726	0.258	0.346	7.430	12.614	2.042
2022-09-30 01:15	8518520	8.092	-109.303	291.607	12.592	405.81	531.861	0.258	0.346	7.338	12.592	1.985
2022-09-30 01:30	8519420	8.104	-109.942	291.633	12.566	405.458	531.736	0.258	0.346	7.159	12.566	2.267
2022-09-30 01:45	8520320	8.122	-110.934	288.045	12.534	405.032	531.604	0.258	0.346	7.508	12.534	2.267
2022-09-30 02:00	8521220	8.147	-112.281	285.908	12.501	404.411	531.235	0.258	0.345	7.740	12.501	2.221
2022-09-30 02:15	8522120	8.141	-111.959	285.265	12.469	404.317	531.536	0.258	0.345	7.877	12.469	1.99
2022-09-30 02:30	8523020	8.108	-110.099	288.524	12.427	404.761	532.686	0.258	0.346	7.639	12.427	2.379
2022-09-30 02:45	8523920	8.111	-110.25	288.974	12.405	404.468	532.591	0.258	0.346	7.441	12.405	2.269
2022-09-30 03:00	8524820	8.123	-110.934	289.051	12.403	404.213	532.284	0.258	0.346	7.382	12.403	2.237
2022-09-30 03:15	8525720	8.093	-109.274	289.287	12.394	404.302	532.512	0.258	0.346	7.288	12.394	2.13
2022-09-30 03:30	8526620	8.095	-109.389	289.859	12.373	404.096	532.524	0.258	0.346	7.051	12.373	2.302
2022-09-30 03:45	8527520	8.098	-109.556	287.236	12.348	403.711	532.363	0.258	0.346	7.082	12.348	65.644
2022-09-30 04:00	8528420	8.110	-110.188	284.564	12.326	403.123	531.873	0.258	0.346	7.221	12.326	2.094
2022-09-30 04:15	8529320	8.109	-110.133	288.033	12.297	402.943	532.033	0.258	0.346	7.341	12.297	1.94
2022-09-30 04:30	8530220	8.098	-109.529	289.957	12.286	402.737	531.908	0.258	0.346	7.259	12.286	1.945
2022-09-30 04:45	8531120	8.091	-109.129	291.576	12.265	402.461	531.819	0.258	0.346	7.212	12.265	1.841
2022-09-30 05:00	8532020	8.096	-109.396	293.366	12.245	402.455	532.078	0.258	0.346	7.140	12.245	1.929
2022-09-30 05:15	8532920	8.097	-109.448	292.181	12.214	402.247	532.228	0.258	0.346	7.024	12.214	2.17
2022-09-30 05:30	8533820	8.086	-108.793	291.001	12.176	402.108	532.554	0.258	0.346	7.088	12.176	2.162
2022-09-30 05:45	8534720	8.103	-109.715	289.346	12.166	402.032	532.58	0.258	0.346	7.015	12.166	2.048
2022-09-30 06:00	8535620	8.051	-106.876	286.783	12.144	403.007	534.173	0.259	0.347	6.818	12.144	2.006
2022-09-30 06:15	8536520	8.014	-104.795	288.722	12.113	402.522	533.948	0.259	0.347	***6.298***	12.113	1.986
2022-09-30 06:30	8537420	8.015	-104.876	289.547	12.083	401.703	533.267	0.258	0.347	***6.139***	12.083	2.165
2022-09-30 06:45	8538320	8.037	-106.068	290.243	12.062	401.606	533.419	0.259	0.347	***6.409***	12.062	2.183
2022-09-30 07:00	8539220	8.056	-107.1	289.68	12.032	401.334	533.464	0.259	0.347	***6.395***	12.032	2.539
2022-09-30 07:15	8540120	8.014	-104.811	290.791	12.027	401.449	533.688	0.259	0.347	***6.434***	12.027	2.365
2022-09-30 07:30	8541020	8.037	-106.037	291.347	11.986	400.978	533.622	0.259	0.347	***6.230***	11.986	2.993
2022-09-30 07:45	8541920	8.051	-106.821	290.055	11.966	400.434	533.163	0.258	0.347	6.506	11.966	2.514
2022-09-30 08:00	8542820	8.048	-106.637	288.235	11.936	399.503	532.334	0.258	0.346	6.721	11.936	2.879
2022-09-30 08:15	8543720	8.076	-108.159	290.076	11.916	399.033	531.98	0.258	0.346	6.965	11.916	3.04
2022-09-30 08:30	8544620	8.070	-107.839	292.792	11.889	399.012	532.321	0.258	0.346	6.857	11.889	2.906
2022-09-30 08:45	8545520	8.080	-108.364	294.472	11.878	399.001	532.442	0.258	0.346	6.910	11.878	3.413
2022-09-30 09:00	8546420	8.085	-108.654	293.428	11.872	399.21	532.809	0.258	0.346	6.923	11.872	4.046
2022-09-30 09:15	8547320	8.085	-108.659	292.525	11.863	399.149	532.848	0.258	0.346	6.723	11.863	3.13
2022-09-30 09:30	8548220	8.065	-107.536	291.969	11.849	399.055	532.911	0.258	0.346	6.654	11.849	2.672
2022-09-30 09:45	8549120	8.065	-107.51	290.98	11.831	398.886	532.929	0.258	0.346	6.660	11.831	3.087
2022-09-30 10:00	8550020	8.063	-107.412	289.003	11.817	398.649	532.804	0.258	0.346	6.688	11.817	2.838
2022-09-30 10:15	8550920	8.067	-107.603	290.357	11.806	398.143	532.283	0.258	0.346	6.670	11.806	3.101
2022-09-30 10:30	8551820	8.080	-108.354	290.689	11.793	397.905	532.136	0.258	0.346	6.660	11.793	3.195
2022-09-30 10:45	8552720	8.078	-108.204	292.083	11.785	397.994	532.367	0.258	0.346	6.832	11.785	4.355

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-30 11:00	8553620	8.094	-109.093	289.265	11.779	397.871	532.286	0.258	0.346	6.915	11.779	3.828
2022-09-30 11:15	8554520	8.076	-108.099	288.648	11.769	397.87	532.412	0.258	0.346	6.960	11.769	3.604
2022-09-30 11:30	8555420	8.079	-108.244	287.43	11.766	397.849	532.426	0.258	0.346	7.010	11.766	3.134
2022-09-30 11:45	8556320	8.081	-108.352	286.695	11.756	397.895	532.632	0.258	0.346	6.914	11.756	3.125
2022-09-30 12:00	8557220	8.083	-108.504	285.947	11.755	397.657	532.322	0.258	0.346	6.962	11.755	2.857
2022-09-30 12:15	8558120	8.120	-110.533	289.12	11.758	397.306	531.808	0.258	0.346	7.064	11.758	3.637
2022-09-30 12:30	8559020	8.121	-110.59	289.017	11.77	397.244	531.563	0.257	0.346	7.187	11.77	2.869
2022-09-30 12:45	8559920	8.134	-111.299	288.369	11.778	397.22	531.421	0.257	0.345	7.387	11.778	2.987
2022-09-30 13:00	8560820	8.153	-112.374	287.298	11.781	397.343	531.553	0.257	0.346	7.612	11.781	2.951
2022-09-30 13:15	8561720	8.152	-112.307	286.912	11.788	397.583	531.782	0.258	0.346	7.730	11.788	2.407
2022-09-30 13:30	8562620	8.149	-112.145	285.217	11.812	398.054	532.078	0.258	0.346	7.586	11.812	2.223
2022-09-30 13:45	8563520	8.152	-112.307	285.098	11.845	398.321	531.99	0.258	0.346	7.521	11.845	2.516
2022-09-30 14:00	8564420	8.163	-112.953	284.106	11.884	398.415	531.591	0.258	0.346	7.621	11.884	2.242
2022-09-30 14:15	8565320	8.175	-113.609	288.057	11.925	398.574	531.236	0.257	0.345	7.759	11.925	2.173
2022-09-30 14:30	8566220	8.188	-114.367	289.892	11.966	398.803	530.997	0.257	0.345	7.554	11.966	3.579
2022-09-30 14:45	8567120	8.177	-113.728	290.658	11.987	398.711	530.59	0.257	0.345	7.602	11.987	2.513
2022-09-30 15:00	8568020	8.214	-115.809	287.675	12.044	399.847	531.325	0.257	0.345	8.050	12.044	2.399
2022-09-30 15:15	8568920	8.306	-120.924	286.013	12.085	399.378	530.155	0.257	0.345	8.192	12.085	2.569
2022-09-30 15:30	8569820	8.299	-120.521	281.815	12.078	399.511	530.423	0.257	0.345	8.593	12.078	2.632
2022-09-30 15:45	8570720	8.345	-123.045	281.984	12.085	399.216	529.937	0.257	0.344	9.097	12.085	2.609
2022-09-30 16:00	8571620	8.293	-120.203	276.086	12.082	399.386	530.201	0.257	0.345	9.088	12.082	2.492
2022-09-30 16:15	8572520	8.312	-121.224	277.466	12.116	399.679	530.135	0.257	0.345	9.190	12.116	2.59
2022-09-30 16:30	8573420	8.294	-120.273	280.828	12.162	400.123	530.111	0.257	0.345	9.230	12.162	2.479
2022-09-30 16:45	8574320	8.314	-121.374	282.559	12.192	400.02	529.576	0.257	0.344	9.198	12.192	2.403
2022-09-30 17:00	8575220	8.291	-120.12	284.714	12.207	400.724	530.296	0.257	0.345	9.174	12.207	2.407
2022-09-30 17:15	8576120	8.277	-119.364	285.97	12.221	401.026	530.508	0.257	0.345	9.060	12.221	2.146
2022-09-30 17:30	8577020	8.302	-120.718	286.316	12.232	401.022	530.357	0.257	0.345	8.983	12.232	2.376
2022-09-30 17:45	8577920	8.286	-119.872	285.82	12.229	400.885	530.22	0.257	0.345	9.173	12.229	2.234
2022-09-30 18:00	8578820	8.277	-119.352	284.478	12.213	400.965	530.535	0.257	0.345	9.072	12.213	2.069
2022-09-30 18:15	8579720	8.260	-118.408	287.108	12.171	400.651	530.681	0.257	0.345	8.962	12.171	2.186
2022-09-30 18:30	8580620	8.258	-118.318	289.182	12.177	400.96	531.012	0.257	0.345	9.060	12.177	2.114
2022-09-30 18:45	8581520	8.248	-117.729	290.853	12.173	401.107	531.263	0.258	0.345	8.976	12.173	2.008
2022-09-30 19:00	8582420	8.252	-117.96	291.537	12.168	401.207	531.465	0.258	0.345	8.791	12.168	2.197
2022-09-30 19:15	8583320	8.234	-116.961	291.704	12.16	401.374	531.799	0.258	0.346	8.651	12.16	2.053
2022-09-30 19:30	8584220	8.259	-118.351	288.676	12.165	400.932	531.143	0.257	0.345	8.749	12.165	2.363
2022-09-30 19:45	8585120	8.261	-118.487	284.483	12.179	400.998	531.046	0.257	0.345	8.828	12.179	2.317
2022-09-30 20:00	8586020	8.229	-116.72	285.038	12.189	401.293	531.291	0.258	0.345	8.623	12.189	2.138
2022-09-30 20:15	8586920	8.235	-117.028	288.278	12.202	401.302	531.139	0.257	0.345	8.564	12.202	2.133
2022-09-30 20:30	8587820	8.235	-117.033	290.746	12.208	401.401	531.182	0.257	0.345	8.463	12.208	1.999
2022-09-30 20:45	8588720	8.231	-116.832	291.8	12.212	401.611	531.413	0.258	0.345	8.435	12.212	2.006
2022-09-30 21:00	8589620	8.218	-116.115	292.725	12.212	401.66	531.474	0.258	0.345	8.284	12.212	2.055
2022-09-30 21:15	8590520	8.217	-116.048	293.323	12.212	401.732	531.571	0.258	0.346	8.397	12.212	2.038
2022-09-30 21:30	8591420	8.216	-116.003	291.39	12.193	401.684	531.757	0.258	0.346	8.334	12.193	2.036
2022-09-30 21:45	8592320	8.242	-117.421	287.236	12.19	401.552	531.63	0.258	0.346	8.559	12.19	1.954
2022-09-30 22:00	8593220	8.218	-116.086	288.631	12.18	401.732	532.004	0.258	0.346	8.509	12.18	1.949
2022-09-30 22:15	8594120	8.212	-115.736	291.726	12.153	401.225	531.695	0.258	0.346	8.193	12.153	2.501
2022-09-30 22:30	8595020	8.224	-116.415	290.045	12.113	400.711	531.549	0.258	0.346	8.515	12.113	3.201
2022-09-30 22:45	8595920	8.246	-117.588	288.169	12.083	400.5	531.674	0.258	0.346	8.833	12.083	2.479

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-09-30 23:00	8596821	8.265	-118.616	288.307	12.05	400.047	531.511	0.258	0.345	8.916	12.05	2.756
2022-09-30 23:15	8597721	8.258	-118.232	288.2	12.04	400.146	531.78	0.258	0.346	8.848	12.04	2.536
2022-09-30 23:30	8598621	8.248	-117.676	287.902	12.033	400.131	531.854	0.258	0.346	8.770	12.033	2.273
2022-09-30 23:45	8599521	8.241	-117.29	287.792	12.023	400.212	532.095	0.258	0.346	8.650	12.023	2.249
2022-10-01 00:00	8600421	8.224	-116.374	285.026	12.017	400.327	532.335	0.258	0.346	8.524	12.017	2.308
2022-10-01 00:15	8601321	8.226	-116.448	287.224	12.003	400.18	532.325	0.258	0.346	8.429	12.003	2.306
2022-10-01 00:30	8602221	8.222	-116.248	287.73	11.989	400.259	532.617	0.258	0.346	8.379	11.989	2.514
2022-10-01 00:45	8603121	8.222	-116.222	289.044	11.977	400.046	532.498	0.258	0.346	8.416	11.977	2.313
2022-10-01 01:00	8604021	8.235	-116.913	288.281	11.958	399.658	532.24	0.258	0.346	8.502	11.958	2.639
2022-10-01 01:15	8604921	8.228	-116.541	288.176	11.953	399.63	532.275	0.258	0.346	8.537	11.953	3.358
2022-10-01 01:30	8605821	8.202	-115.128	288.066	11.94	399.641	532.458	0.258	0.346	8.474	11.94	2.271
2022-10-01 01:45	8606721	8.187	-114.276	286.814	11.919	399.438	532.469	0.258	0.346	8.306	11.919	2.657
2022-10-01 02:00	8607621	8.214	-115.726	284.604	11.892	399.342	532.709	0.258	0.346	8.431	11.892	2.408
2022-10-01 02:15	8608521	8.199	-114.913	286.879	11.87	398.993	532.549	0.258	0.346	8.334	11.87	2.221
2022-10-01 02:30	8609421	8.209	-115.471	288.541	11.85	398.728	532.469	0.258	0.346	8.443	11.85	2.902
2022-10-01 02:45	8610321	8.221	-116.112	289.523	11.799	398.333	532.636	0.258	0.346	8.499	11.799	2.492
2022-10-01 03:00	8611221	8.229	-116.522	288.538	11.799	398.355	532.662	0.258	0.346	8.476	11.799	2.536
2022-10-01 03:15	8612121	8.221	-116.074	289.778	11.791	398.255	532.635	0.258	0.346	8.401	11.791	2.269
2022-10-01 03:30	8613021	8.200	-114.963	289.94	11.789	398.41	532.871	0.258	0.346	8.151	11.789	2.103
2022-10-01 03:45	8613921	8.193	-114.563	291.111	11.777	398.387	533.005	0.258	0.346	7.926	11.777	1.994
2022-10-01 04:00	8614821	8.203	-115.097	289.89	11.74	398.076	533.091	0.258	0.347	7.890	11.74	2.075
2022-10-01 04:15	8615721	8.188	-114.257	290.734	11.703	397.408	532.7	0.258	0.346	7.940	11.703	2.245
2022-10-01 04:30	8616621	8.188	-114.226	291.139	11.681	397.296	532.848	0.258	0.346	8.176	11.681	1.966
2022-10-01 04:45	8617521	8.188	-114.202	292.103	11.659	397.183	532.993	0.258	0.346	8.036	11.659	1.885
2022-10-01 05:00	8618421	8.189	-114.269	292.691	11.631	396.965	533.085	0.258	0.347	7.950	11.631	3.02
2022-10-01 05:15	8619321	8.173	-113.389	293.724	11.614	396.672	532.93	0.258	0.346	7.861	11.614	2.366
2022-10-01 05:30	8620221	8.171	-113.246	292.012	11.572	396.199	532.859	0.258	0.346	8.053	11.572	2.344
2022-10-01 05:45	8621121	8.176	-113.497	290.877	11.546	395.907	532.83	0.258	0.346	8.135	11.546	2.506
2022-10-01 06:00	8622021	8.181	-113.764	288.936	11.474	395.266	532.959	0.258	0.346	8.088	11.474	2.218
2022-10-01 06:15	8622921	8.185	-113.981	289.287	11.44	394.871	532.881	0.258	0.346	8.149	11.44	2.217
2022-10-01 06:30	8623821	8.190	-114.26	290.45	11.429	394.838	532.99	0.258	0.346	8.158	11.429	2.807
2022-10-01 06:45	8624721	8.182	-113.809	291.092	11.415	394.671	532.966	0.258	0.346	8.047	11.415	2.014
2022-10-01 07:00	8625621	8.181	-113.757	291.592	11.395	394.689	533.253	0.258	0.347	7.932	11.395	2.669
2022-10-01 07:15	8626521	8.161	-112.636	292.632	11.368	394.423	533.269	0.258	0.347	7.881	11.368	2.22
2022-10-01 07:30	8627421	8.166	-112.875	292.398	11.369	394.379	533.195	0.258	0.347	7.952	11.369	2.09
2022-10-01 07:45	8628321	8.146	-111.766	292.765	11.331	394.033	533.26	0.258	0.347	7.765	11.331	2.351
2022-10-01 08:00	8629221	8.171	-113.142	289.013	11.291	393.464	533.042	0.258	0.346	7.909	11.291	2.255
2022-10-01 08:15	8630121	8.168	-112.939	289.137	11.249	392.92	532.88	0.258	0.346	7.877	11.249	2.804
2022-10-01 08:30	8631021	8.213	-115.433	288.676	11.234	392.82	532.947	0.258	0.346	8.246	11.234	2.689
2022-10-01 08:45	8631921	8.181	-113.666	288.941	11.242	393.106	533.228	0.258	0.347	8.085	11.242	2.374
2022-10-01 09:00	8632821	8.169	-113.018	290.915	11.22	392.789	533.107	0.258	0.347	7.797	11.22	2.519
2022-10-01 09:15	8633721	8.155	-112.221	291.628	11.19	392.306	532.853	0.258	0.346	7.875	11.19	2.815
2022-10-01 09:30	8634621	8.159	-112.455	290.012	11.18	392.153	532.793	0.258	0.346	8.185	11.18	2.704
2022-10-01 09:45	8635521	8.160	-112.517	290.741	11.173	392.119	532.835	0.258	0.346	8.141	11.173	2.45
2022-10-01 10:00	8636421	8.197	-114.505	289.566	11.172	392.092	532.823	0.258	0.346	8.165	11.172	3.921
2022-10-01 10:15	8637321	8.168	-112.963	292.169	11.184	392.22	532.826	0.258	0.346	8.099	11.184	3.708
2022-10-01 10:30	8638221	8.164	-112.739	294.892	11.194	392.268	532.752	0.258	0.346	7.894	11.194	3.507
2022-10-01 10:45	8639121	8.171	-113.091	296.458	11.221	392.403	532.557	0.258	0.346	8.004	11.221	3.423

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-01 11:00	8640021	8.184	-113.842	296.182	11.242	392.665	532.623	0.258	0.346	8.102	11.242	1.994
2022-10-01 11:15	8640921	8.170	-113.091	297.269	11.287	393.183	532.713	0.258	0.346	7.837	11.287	2.091
2022-10-01 11:30	8641821	8.138	-111.344	298.039	11.315	393.625	532.927	0.258	0.346	7.604	11.315	2.288
2022-10-01 11:45	8642721	8.125	-110.633	297.703	11.339	394.1	533.237	0.258	0.347	7.464	11.339	1.892
2022-10-01 12:00	8643621	8.108	-109.704	294.935	11.353	394.545	533.642	0.258	0.347	7.270	11.353	1.868
2022-10-01 12:15	8644521	8.119	-110.295	296.096	11.368	394.627	533.546	0.258	0.347	7.214	11.368	2.162
2022-10-01 12:30	8645421	8.108	-109.739	297.55	11.379	394.837	533.681	0.258	0.347	7.012	11.379	1.751
2022-10-01 12:45	8646321	8.115	-110.123	297.398	11.402	395.028	533.621	0.258	0.347	7.035	11.402	2.044
2022-10-01 13:00	8647221	8.102	-109.417	297.388	11.431	395.278	533.563	0.258	0.347	6.995	11.431	1.845
2022-10-01 13:15	8648121	8.113	-110.006	297.109	11.477	395.613	533.372	0.258	0.347	7.108	11.477	1.833
2022-10-01 13:30	8649021	8.121	-110.49	296.692	11.538	396.283	533.44	0.258	0.347	7.203	11.538	1.858
2022-10-01 13:45	8649921	8.131	-111.055	294.997	11.608	396.984	533.424	0.258	0.347	7.227	11.608	1.827
2022-10-01 14:00	8650821	8.130	-111.029	294.024	11.667	397.412	533.199	0.258	0.347	7.201	11.667	1.768
2022-10-01 14:15	8651721	8.141	-111.675	294	11.717	397.56	532.711	0.258	0.346	7.518	11.717	1.848
2022-10-01 14:30	8652621	8.151	-112.219	294.174	11.777	398.043	532.545	0.258	0.346	7.526	11.777	1.845
2022-10-01 14:45	8653521	8.160	-112.777	294.561	11.841	398.552	532.356	0.258	0.346	7.628	11.841	1.96
2022-10-01 15:00	8654421	8.150	-112.224	294.909	11.901	399.693	533.055	0.258	0.346	7.747	11.901	2.225
2022-10-01 15:15	8655321	8.173	-113.528	294.017	11.98	400.375	532.893	0.258	0.346	7.693	11.98	1.981
2022-10-01 15:30	8656221	8.185	-114.198	292.632	12.029	400.78	532.774	0.258	0.346	7.607	12.029	1.971
2022-10-01 15:45	8657121	8.186	-114.255	292.665	12.062	401.148	532.813	0.258	0.346	7.697	12.062	2.041
2022-10-01 16:00	8658021	8.169	-113.354	291.669	12.071	400.923	532.4	0.258	0.346	7.817	12.071	2.081
2022-10-01 16:15	8658921	8.176	-113.733	292.653	12.077	400.595	531.878	0.258	0.346	8.089	12.077	2.88
2022-10-01 16:30	8659821	8.182	-114.038	292.575	12.068	400.427	531.777	0.258	0.346	8.071	12.068	2.386
2022-10-01 16:45	8660721	8.181	-114.002	293.981	12.066	400.336	531.679	0.258	0.346	8.286	12.066	2.707
2022-10-01 17:00	8661621	8.220	-116.172	293.123	12.08	401.082	532.485	0.258	0.346	8.511	12.08	2.796
2022-10-01 17:15	8662521	8.237	-117.123	294.177	12.093	401.379	532.709	0.258	0.346	8.307	12.093	2.459
2022-10-01 17:30	8663421	8.232	-116.808	294.639	12.061	400.825	532.404	0.258	0.346	8.292	12.061	2.564
2022-10-01 17:45	8664321	8.226	-116.496	294.046	12.042	400.63	532.398	0.258	0.346	8.419	12.042	2.676
2022-10-01 18:00	8665221	8.215	-115.874	291.664	12.005	400.183	532.303	0.258	0.346	8.343	12.005	2.846
2022-10-01 18:15	8666121	8.204	-115.259	293.302	11.97	399.496	531.864	0.258	0.346	8.284	11.97	2.403
2022-10-01 18:30	8667021	8.214	-115.75	294.012	11.947	399.243	531.838	0.258	0.346	8.423	11.947	2.884
2022-10-01 18:45	8667921	8.217	-115.952	293.133	11.928	399.078	531.869	0.258	0.346	8.562	11.928	2.649
2022-10-01 19:00	8668821	8.231	-116.68	291.833	11.906	399.11	532.213	0.258	0.346	8.471	11.906	3.54
2022-10-01 19:15	8669721	8.228	-116.515	292.775	11.905	399.246	532.407	0.258	0.346	8.399	11.905	2.398
2022-10-01 19:30	8670621	8.240	-117.152	293.631	11.879	399.017	532.455	0.258	0.346	8.197	11.879	2.588
2022-10-01 19:45	8671521	8.234	-116.837	291.008	11.887	398.882	532.164	0.258	0.346	8.635	11.887	2.817
2022-10-01 20:00	8672421	8.207	-115.359	291.65	11.89	399.37	532.784	0.258	0.346	8.441	11.89	2.336
2022-10-01 20:15	8673321	8.191	-114.489	292.706	11.897	400.091	533.647	0.259	0.347	8.145	11.897	2.186
2022-10-01 20:30	8674221	8.186	-114.231	292.255	11.897	399.54	532.903	0.258	0.346	7.916	11.897	2.336
2022-10-01 20:45	8675121	8.186	-114.236	291.774	11.896	399.518	532.887	0.258	0.346	7.874	11.896	2.287
2022-10-01 21:00	8676021	8.192	-114.548	290.815	11.895	399.564	532.974	0.258	0.346	8.105	11.895	2.461
2022-10-01 21:15	8676921	8.184	-114.079	293.411	11.896	399.72	533.162	0.258	0.347	8.027	11.896	2.13
2022-10-01 21:30	8677821	8.158	-112.686	295.037	11.893	399.876	533.416	0.258	0.347	7.791	11.893	1.845
2022-10-01 21:45	8678721	8.155	-112.512	295.779	11.89	399.937	533.533	0.259	0.347	7.768	11.89	1.933
2022-10-01 22:00	8679621	8.135	-111.401	294.396	11.881	399.909	533.62	0.259	0.347	7.819	11.881	2.206
2022-10-01 22:15	8680521	8.134	-111.334	296.492	11.869	399.578	533.336	0.258	0.347	7.566	11.869	2.482
2022-10-01 22:30	8681421	8.155	-112.481	296.959	11.84	398.956	532.906	0.258	0.346	7.576	11.84	2.072
2022-10-01 22:45	8682321	8.185	-114.105	295.97	11.804	398.617	532.936	0.258	0.346	7.995	11.804	2.6

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-01 23:00	8683221	8.218	-115.902	293.13	11.782	398.432	533	0.258	0.346	8.259	11.782	3.094
2022-10-01 23:15	8684121	8.200	-114.954	293.438	11.775	398.576	533.282	0.258	0.347	8.396	11.775	2.44
2022-10-01 23:30	8685021	8.196	-114.727	291.638	11.778	398.616	533.289	0.258	0.347	8.393	11.778	2.604
2022-10-01 23:45	8685921	8.180	-113.828	293.032	11.776	398.771	533.533	0.258	0.347	8.174	11.776	2.725
2022-10-02 00:00	8686821	8.181	-113.89	291.056	11.766	398.955	533.91	0.259	0.347	8.086	11.766	2.57
2022-10-02 00:15	8687721	8.159	-112.691	293.242	11.755	398.886	533.965	0.259	0.347	7.909	11.755	2.499
2022-10-02 00:30	8688621	8.158	-112.629	295.068	11.744	398.801	534.004	0.259	0.347	7.961	11.744	2.535
2022-10-02 00:45	8689521	8.172	-113.368	295.479	11.732	398.661	533.985	0.259	0.347	8.025	11.732	2.474
2022-10-02 01:00	8690421	8.190	-114.348	294.58	11.7	398.083	533.648	0.258	0.347	8.145	11.7	3.348
2022-10-02 01:15	8691321	8.182	-113.924	294.346	11.683	397.781	533.478	0.258	0.347	8.220	11.683	3.241
2022-10-02 01:30	8692221	8.201	-114.934	294.577	11.651	397.573	533.629	0.258	0.347	8.302	11.651	3.845
2022-10-02 01:45	8693121	8.189	-114.267	293.113	11.612	397.246	533.72	0.258	0.347	8.407	11.612	3.771
2022-10-02 02:00	8694021	8.198	-114.727	291.447	11.583	397.044	533.851	0.259	0.347	8.355	11.583	3.435
2022-10-02 02:15	8694921	8.196	-114.622	293.204	11.572	397.009	533.961	0.259	0.347	8.207	11.572	3.303
2022-10-02 02:30	8695821	8.194	-114.496	295.364	11.557	397.03	534.196	0.259	0.347	8.175	11.557	2.792
2022-10-02 02:45	8696721	8.187	-114.112	296.079	11.544	396.869	534.155	0.259	0.347	8.066	11.544	2.585
2022-10-02 03:00	8697621	8.182	-113.845	295.85	11.535	396.557	533.86	0.259	0.347	8.063	11.535	3.233
2022-10-02 03:15	8698521	8.191	-114.315	296.883	11.525	396.403	533.778	0.258	0.347	7.957	11.525	3.559
2022-10-02 03:30	8699421	8.179	-113.69	295.977	11.489	395.937	533.655	0.258	0.347	8.143	11.489	3.145
2022-10-02 03:45	8700321	8.192	-114.348	293.338	11.47	396.034	534.049	0.259	0.347	8.135	11.47	3.575
2022-10-02 04:00	8701221	8.153	-112.214	293.109	11.467	396.346	534.506	0.259	0.347	7.933	11.467	3.237
2022-10-02 04:15	8702121	8.165	-112.879	293.471	11.446	395.945	534.251	0.259	0.347	7.831	11.446	3.336
2022-10-02 04:30	8703021	8.168	-113.01	292.646	11.428	395.979	534.542	0.259	0.347	8.125	11.428	3.337
2022-10-02 04:45	8703921	8.170	-113.127	292.634	11.408	395.534	534.221	0.259	0.347	8.072	11.408	4.964
2022-10-02 05:00	8704821	8.184	-113.907	292.093	11.389	395.211	534.048	0.259	0.347	8.248	11.389	3.769
2022-10-02 05:15	8705721	8.209	-115.263	292.775	11.389	395.121	533.933	0.258	0.347	8.154	11.389	3.782
2022-10-02 05:30	8706621	8.229	-116.37	291.452	11.382	395.116	534.012	0.259	0.347	8.384	11.382	3.888
2022-10-02 05:45	8707521	8.199	-114.696	291.299	11.378	394.956	533.859	0.258	0.347	8.391	11.378	4.747
2022-10-02 06:00	8708421	8.209	-115.252	289.218	11.377	395.112	534.085	0.259	0.347	8.415	11.377	4.078
2022-10-02 06:15	8709321	8.218	-115.74	290.887	11.374	395.096	534.099	0.259	0.347	8.339	11.374	4.596
2022-10-02 06:30	8710221	8.205	-115.032	292.382	11.359	395.125	534.341	0.259	0.347	8.563	11.359	5.013
2022-10-02 06:45	8711121	8.189	-114.138	294.375	11.356	395.124	534.385	0.259	0.347	8.558	11.356	4.64
2022-10-02 07:00	8712021	8.180	-113.642	296.113	11.367	395.158	534.28	0.259	0.347	8.160	11.367	3.567
2022-10-02 07:15	8712921	8.172	-113.225	297.455	11.385	395.333	534.275	0.259	0.347	7.814	11.385	3.014
2022-10-02 07:30	8713821	8.162	-112.698	298.075	11.404	395.659	534.452	0.259	0.347	7.662	11.404	2.78
2022-10-02 07:45	8714721	8.155	-112.293	298.075	11.418	395.881	534.553	0.259	0.347	7.603	11.418	2.873
2022-10-02 08:00	8715621	8.138	-111.384	296.675	11.428	396.229	534.883	0.259	0.348	7.489	11.428	4.585
2022-10-02 08:15	8716521	8.119	-110.335	298.928	11.435	396.287	534.868	0.259	0.348	7.436	11.435	4.344
2022-10-02 08:30	8717421	8.146	-111.825	301.143	11.448	396.255	534.64	0.259	0.348	7.749	11.448	3.787
2022-10-02 08:45	8718321	8.124	-110.602	301.301	11.45	396.284	534.651	0.259	0.348	7.778	11.45	3.86
2022-10-02 09:00	8719221	8.108	-109.742	304.031	11.454	396.479	534.859	0.259	0.348	7.388	11.454	3.168
2022-10-02 09:15	8720121	8.117	-110.228	302.08	11.458	396.377	534.665	0.259	0.348	7.458	11.458	3.09
2022-10-02 09:30	8721021	8.113	-110.03	302.057	11.46	396.412	534.685	0.259	0.348	7.421	11.46	3.138
2022-10-02 09:45	8721921	8.118	-110.29	299.975	11.463	396.385	534.616	0.259	0.348	7.523	11.463	2.935
2022-10-02 10:00	8722821	8.124	-110.626	296.842	11.46	396.346	534.596	0.259	0.347	7.500	11.46	3.204
2022-10-02 10:15	8723721	8.133	-111.144	298.523	11.465	396.289	534.457	0.259	0.347	7.499	11.465	3.892
2022-10-02 10:30	8724621	8.143	-111.697	299.639	11.474	396.266	534.303	0.259	0.347	7.543	11.474	2.775
2022-10-02 10:45	8725521	8.160	-112.638	299.608	11.488	396.498	534.421	0.259	0.347	7.826	11.488	3.454

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-02 11:00	8726421	8.154	-112.305	297.944	11.5	396.522	534.291	0.259	0.347	7.754	11.5	4.162
2022-10-02 11:15	8727321	8.143	-111.704	299.107	11.521	396.737	534.292	0.259	0.347	7.618	11.521	2.78
2022-10-02 11:30	8728221	8.115	-110.168	299.494	11.546	397.043	534.358	0.259	0.347	7.418	11.546	2.91
2022-10-02 11:45	8729121	8.121	-110.478	297.934	11.568	397.141	534.183	0.259	0.347	7.608	11.568	2.662
2022-10-02 12:00	8730021	8.137	-111.363	294.94	11.585	397.562	534.524	0.259	0.347	7.587	11.585	4.128
2022-10-02 12:15	8730921	8.117	-110.314	295.178	11.607	397.859	534.621	0.259	0.348	7.586	11.607	3.372
2022-10-02 12:30	8731821	8.135	-111.277	294.737	11.628	397.969	534.48	0.259	0.347	7.814	11.628	3.327
2022-10-02 12:45	8732721	8.216	-115.802	288.221	11.681	398.379	534.304	0.259	0.347	8.012	11.681	2.701
2022-10-02 13:00	8733621	8.146	-111.923	290.186	11.707	398.492	534.093	0.259	0.347	7.510	11.707	3.389
2022-10-02 13:15	8734521	8.173	-113.473	286.366	11.802	399.065	533.565	0.258	0.347	8.039	11.802	3.486
2022-10-02 13:30	8735422	8.172	-113.459	286.571	11.987	401.085	533.742	0.259	0.347	8.113	11.987	5.466
2022-10-02 13:45	8736322	8.196	-114.903	286.514	12.241	403.832	533.96	0.259	0.347	8.426	12.241	4.048
2022-10-02 14:00	8737222	8.191	-114.675	281.185	12.326	405.041	534.401	0.259	0.347	8.477	12.326	4.166
2022-10-02 14:15	8738122	8.180	-114.083	282.79	12.447	406.343	534.498	0.259	0.347	8.580	12.447	3.356
2022-10-02 14:30	8739022	8.171	-113.645	284.056	12.567	407.931	534.967	0.260	0.348	8.560	12.567	3.005
2022-10-02 14:45	8739922	8.168	-113.528	283.872	12.69	409.314	535.139	0.260	0.348	8.465	12.69	2.965
2022-10-02 15:00	8740822	8.188	-114.686	284.194	12.823	410.455	534.848	0.260	0.348	8.706	12.823	3.526
2022-10-02 15:15	8741722	8.185	-114.584	282.265	13.019	412.658	535.105	0.260	0.348	8.552	13.019	3.17
2022-10-02 15:30	8742622	8.177	-114.212	280.477	13.19	414.59	535.353	0.260	0.348	8.509	13.19	3.477
2022-10-02 15:45	8743522	8.184	-114.703	278.246	13.361	416.65	535.743	0.260	0.348	8.546	13.361	3.679
2022-10-02 16:00	8744422	8.150	-112.863	273.635	13.45	417.642	535.86	0.260	0.348	8.716	13.45	3.734
2022-10-02 16:15	8745322	8.172	-114.071	274.655	13.553	418.662	535.81	0.260	0.348	8.915	13.553	3.617
2022-10-02 16:30	8746222	8.193	-115.314	273.21	13.637	419.835	536.21	0.261	0.349	8.857	13.637	3.652
2022-10-02 16:45	8747122	8.184	-114.858	274.7	13.734	420.908	536.316	0.261	0.349	8.832	13.734	3.266
2022-10-02 17:00	8748022	8.183	-114.822	274.698	13.837	421.984	536.34	0.261	0.349	8.508	13.837	3.515
2022-10-02 17:15	8748922	8.177	-114.548	273.778	13.946	422.499	535.572	0.260	0.348	8.752	13.946	2.679
2022-10-02 17:30	8749822	8.182	-114.841	275.544	13.989	423.097	535.779	0.260	0.348	8.714	13.989	2.612
2022-10-02 17:45	8750722	8.183	-114.911	277.957	14.009	423.653	536.22	0.261	0.349	8.522	14.009	2.913
2022-10-02 18:00	8751622	8.164	-113.807	274.619	13.979	422.688	535.385	0.260	0.348	8.518	13.979	2.892
2022-10-02 18:15	8752522	8.244	-118.213	273.954	13.917	418.78	531.232	0.258	0.345	8.816	13.917	2.835
2022-10-02 18:30	8753422	8.266	-119.402	273.828	13.847	416.602	529.37	0.257	0.344	9.572	13.847	2.671
2022-10-02 18:45	8754322	8.300	-121.233	274.655	13.706	413.99	527.861	0.256	0.343	10.333	13.706	2.507
2022-10-02 19:00	8755222	8.390	-126.2	271.641	13.603	415.124	530.634	0.258	0.345	10.933	13.603	3.454
2022-10-02 19:15	8756122	8.299	-121.117	272.273	13.546	415.369	531.69	0.258	0.346	10.625	13.546	2.767
2022-10-02 19:30	8757022	8.272	-119.593	274.865	13.453	415.047	532.491	0.259	0.346	10.221	13.453	2.856
2022-10-02 19:45	8757922	8.265	-119.166	276.329	13.408	414.701	532.63	0.259	0.346	10.065	13.408	3.967
2022-10-02 20:00	8758822	8.267	-119.295	275.039	13.326	413.738	532.464	0.259	0.346	9.910	13.326	2.822
2022-10-02 20:15	8759722	8.252	-118.444	277.576	13.31	413.281	532.08	0.258	0.346	9.760	13.31	2.647
2022-10-02 20:30	8760622	8.240	-117.738	280.389	13.273	413.51	532.865	0.259	0.346	9.670	13.273	2.816
2022-10-02 20:45	8761522	8.234	-117.397	280.298	13.232	413.424	533.286	0.259	0.347	9.539	13.232	2.387
2022-10-02 21:00	8762422	8.222	-116.68	283.725	13.139	412.992	533.958	0.259	0.347	9.146	13.139	2.893
2022-10-02 21:15	8763322	8.182	-114.441	285.906	13.071	412.834	534.645	0.260	0.348	8.815	13.071	3.024
2022-10-02 21:30	8764222	8.169	-113.699	285.753	13.004	412.146	534.645	0.260	0.348	8.524	13.004	3.151
2022-10-02 21:45	8765122	8.172	-113.888	284.824	12.964	411.765	534.689	0.260	0.348	8.570	12.964	2.882
2022-10-02 22:00	8766022	8.175	-114.002	281.524	12.875	410.839	534.653	0.259	0.348	8.483	12.875	2.78
2022-10-02 22:15	8766922	8.164	-113.394	282.594	12.825	409.997	534.228	0.259	0.347	8.412	12.825	2.825
2022-10-02 22:30	8767822	8.149	-112.541	285.629	12.768	409.743	534.659	0.259	0.348	8.243	12.768	2.767
2022-10-02 22:45	8768722	8.128	-111.33	288.851	12.699	409.13	534.771	0.259	0.348	8.062	12.699	2.509

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-02 23:00	8769622	8.133	-111.604	290.927	12.683	409.426	535.379	0.260	0.348	7.755	12.683	2.73
2022-10-02 23:15	8770522	8.107	-110.18	293.097	12.682	409.592	535.61	0.260	0.348	7.647	12.682	2.395
2022-10-02 23:30	8771422	8.098	-109.675	292.942	12.659	409.66	536.009	0.260	0.348	7.499	12.659	2.369
2022-10-02 23:45	8772322	8.085	-108.948	292.989	12.635	409.704	536.383	0.260	0.349	7.252	12.635	2.29
2022-10-03 00:00	8773222	8.075	-108.354	291.702	12.591	409.582	536.82	0.260	0.349	7.115	12.591	2.193
2022-10-03 00:15	8774122	8.074	-108.268	293.092	12.549	408.765	536.311	0.260	0.349	7.100	12.549	3.136
2022-10-03 00:30	8775022	8.106	-110.059	291.261	12.545	408.593	536.128	0.260	0.348	7.383	12.545	2.346
2022-10-03 00:45	8775922	8.104	-109.916	291.535	12.496	407.811	535.766	0.260	0.348	7.477	12.496	2.589
2022-10-03 01:00	8776822	8.137	-111.773	290.274	12.497	407.968	535.955	0.260	0.348	7.584	12.497	2.448
2022-10-03 01:15	8777722	8.110	-110.221	292.742	12.455	407.751	536.235	0.260	0.349	7.383	12.455	2.339
2022-10-03 01:30	8778622	8.089	-109.072	294.315	12.401	407.491	536.623	0.260	0.349	7.173	12.401	2.354
2022-10-03 01:45	8779522	8.090	-109.079	292.691	12.316	406.169	536.027	0.260	0.348	7.206	12.316	2.736
2022-10-03 02:00	8780422	8.121	-110.786	288.972	12.293	405.692	535.716	0.260	0.348	7.783	12.293	3.74
2022-10-03 02:15	8781322	8.132	-111.363	291.414	12.266	405.083	535.271	0.260	0.348	7.546	12.266	2.244
2022-10-03 02:30	8782222	8.134	-111.489	293.838	12.25	405.193	535.633	0.260	0.348	7.418	12.25	2.188
2022-10-03 02:45	8783122	8.111	-110.221	295.777	12.196	404.572	535.547	0.260	0.348	7.289	12.196	2.281
2022-10-03 03:00	8784022	8.125	-110.936	295.972	12.156	404.543	536.044	0.260	0.348	7.338	12.156	2.731
2022-10-03 03:15	8784922	8.103	-109.742	296.582	12.121	404.218	536.094	0.260	0.348	7.333	12.121	2.623
2022-10-03 03:30	8785822	8.116	-110.409	295.474	12.067	403.397	535.734	0.260	0.348	7.264	12.067	3.028
2022-10-03 03:45	8786722	8.124	-110.877	293.5	12.042	403.326	535.979	0.260	0.348	7.593	12.042	2.57
2022-10-03 04:00	8787622	8.118	-110.526	291.609	12.008	403.149	536.202	0.260	0.349	7.432	12.008	2.447
2022-10-03 04:15	8788522	8.114	-110.257	293.407	11.972	402.306	535.573	0.260	0.348	7.370	11.972	2.485
2022-10-03 04:30	8789422	8.114	-110.269	292.882	11.931	402.124	535.889	0.260	0.348	7.424	11.931	2.439
2022-10-03 04:45	8790322	8.110	-110.028	292.727	11.887	401.771	536.021	0.260	0.348	7.422	11.887	2.331
2022-10-03 05:00	8791222	8.109	-109.947	292.393	11.896	402.003	536.204	0.260	0.349	7.305	11.896	2.638
2022-10-03 05:15	8792122	8.098	-109.336	294.458	11.862	401.733	536.313	0.260	0.349	7.016	11.862	3.03
2022-10-03 05:30	8793022	8.102	-109.57	292.441	11.826	401.274	536.19	0.260	0.349	7.218	11.826	2.454
2022-10-03 05:45	8793922	8.098	-109.336	292.663	11.789	400.911	536.209	0.260	0.349	7.194	11.789	2.336
2022-10-03 06:00	8794822	8.122	-110.624	290.343	11.721	400.059	536.009	0.260	0.348	7.174	11.721	2.748
2022-10-03 06:15	8795722	8.112	-110.071	290.927	11.661	399.266	535.761	0.260	0.348	7.248	11.661	2.671
2022-10-03 06:30	8796622	8.120	-110.471	289.849	11.627	398.92	535.769	0.260	0.348	7.363	11.627	2.893
2022-10-03 06:45	8797522	8.131	-111.043	289.68	11.593	398.554	535.744	0.259	0.348	7.414	11.593	3.153
2022-10-03 07:00	8798422	8.127	-110.803	290.312	11.554	398.218	535.834	0.260	0.348	7.412	11.554	3.598
2022-10-03 07:15	8799322	8.114	-110.097	292.048	11.526	398.026	535.962	0.260	0.348	7.304	11.526	2.886
2022-10-03 07:30	8800222	8.124	-110.619	291.17	11.511	397.847	535.926	0.260	0.348	7.362	11.511	2.574
2022-10-03 07:45	8801122	8.103	-109.46	291.874	11.462	397.533	536.173	0.260	0.349	7.273	11.462	2.376
2022-10-03 08:00	8802022	8.124	-110.6	291.108	11.411	396.866	535.979	0.260	0.348	7.228	11.411	2.931
2022-10-03 08:15	8802922	8.102	-109.386	293.032	11.35	395.849	535.448	0.259	0.348	7.167	11.35	2.784
2022-10-03 08:30	8803822	8.127	-110.738	293.431	11.306	395.227	535.217	0.259	0.348	7.326	11.306	3.293
2022-10-03 08:45	8804722	8.135	-111.146	293.838	11.254	394.696	535.212	0.259	0.348	7.469	11.254	3.2
2022-10-03 09:00	8805622	8.138	-111.318	293.533	11.198	394.151	535.251	0.259	0.348	7.575	11.198	3.63
2022-10-03 09:15	8806522	8.140	-111.387	294.036	11.177	393.875	535.169	0.259	0.348	7.619	11.177	4.14
2022-10-03 09:30	8807422	8.148	-111.852	292.489	11.163	393.772	535.221	0.259	0.348	7.724	11.163	3.041
2022-10-03 09:45	8808322	8.154	-112.147	292.441	11.154	393.724	535.282	0.259	0.348	7.725	11.154	3.334
2022-10-03 10:00	8809222	8.163	-112.658	291.504	11.128	393.434	535.248	0.259	0.348	7.710	11.128	3.592
2022-10-03 10:15	8810122	8.154	-112.154	293.421	11.111	393.173	535.139	0.259	0.348	7.646	11.111	2.805
2022-10-03 10:30	8811022	8.165	-112.736	293.64	11.113	393.255	535.212	0.259	0.348	7.716	11.113	2.906
2022-10-03 10:45	8811922	8.154	-112.135	295.037	11.116	393.335	535.28	0.259	0.348	7.598	11.116	3.016

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-03 11:00	8812822	8.130	-110.846	297.503	11.126	393.496	535.366	0.259	0.348	7.541	11.126	2.698
2022-10-03 11:15	8813722	8.117	-110.137	297.739	11.138	394.018	535.911	0.259	0.348	7.503	11.138	2.497
2022-10-03 11:30	8814622	8.108	-109.603	297.302	11.148	393.798	535.467	0.259	0.348	7.406	11.148	2.39
2022-10-03 11:45	8815522	8.087	-108.461	297.798	11.161	394.118	535.726	0.259	0.348	7.095	11.161	2.441
2022-10-03 12:00	8816422	8.079	-108.02	296.554	11.169	394.386	535.983	0.259	0.348	6.907	11.169	2.145
2022-10-03 12:15	8817322	8.074	-107.751	298.745	11.188	394.627	536.045	0.259	0.348	6.838	11.188	2.066
2022-10-03 12:30	8818222	8.071	-107.605	300.19	11.214	395.013	536.204	0.260	0.349	6.739	11.214	2.069
2022-10-03 12:45	8819122	8.056	-106.826	302.269	11.25	395.553	536.44	0.260	0.349	6.566	11.25	2.011
2022-10-03 13:00	8820022	8.052	-106.606	301.728	11.294	395.702	536.025	0.259	0.348	***6.392***	11.294	2.328
2022-10-03 13:15	8820922	8.063	-107.255	301.882	11.356	395.627	535.062	0.259	0.348	6.640	11.356	2.047
2022-10-03 13:30	8821822	8.081	-108.232	299.205	11.431	396.517	535.234	0.259	0.348	7.447	11.431	2.148
2022-10-03 13:45	8822722	8.106	-109.627	297.326	11.491	397.187	535.301	0.259	0.348	7.446	11.491	2.349
2022-10-03 14:00	8823622	8.099	-109.279	294.246	11.548	397.668	535.175	0.259	0.348	7.378	11.548	2.203
2022-10-03 14:15	8824522	8.120	-110.483	295.71	11.614	398.315	535.13	0.259	0.348	7.450	11.614	2.378
2022-10-03 14:30	8825422	8.116	-110.252	297.448	11.682	398.922	535.015	0.259	0.348	7.449	11.682	2.466
2022-10-03 14:45	8826322	8.127	-110.898	297.751	11.749	399.515	534.893	0.259	0.348	7.652	11.749	2.26
2022-10-03 15:00	8827222	8.128	-110.991	297.345	11.824	400.525	535.216	0.259	0.348	7.619	11.824	2.348
2022-10-03 15:15	8828122	8.117	-110.404	298.382	11.905	401.386	535.269	0.259	0.348	7.551	11.905	2.564
2022-10-03 15:30	8829022	8.108	-109.93	296.711	11.966	402.148	535.448	0.260	0.348	7.468	11.966	2.692
2022-10-03 15:45	8829922	8.130	-111.194	294.966	12.023	402.509	535.151	0.259	0.348	7.407	12.023	2.801
2022-10-03 16:00	8830822	8.152	-112.412	292.887	12.072	402.892	534.989	0.259	0.348	7.630	12.072	2.711
2022-10-03 16:15	8831722	8.127	-111.027	293.898	12.11	403.028	534.667	0.259	0.348	7.575	12.11	2.521
2022-10-03 16:30	8832622	8.138	-111.649	294.544	12.154	402.938	533.945	0.259	0.347	7.529	12.154	2.58
2022-10-03 16:45	8833522	8.172	-113.554	295.262	12.183	402.947	533.565	0.259	0.347	7.761	12.183	2.584
2022-10-03 17:00	8834422	8.232	-116.858	294.129	12.215	403.142	533.389	0.259	0.347	7.953	12.215	2.958
2022-10-03 17:15	8835322	8.199	-115.082	292.775	12.241	403.865	533.994	0.259	0.347	8.531	12.241	2.504
2022-10-03 17:30	8836222	8.208	-115.535	293.04	12.227	403.837	534.148	0.259	0.347	8.803	12.227	2.77
2022-10-03 17:45	8837122	8.210	-115.654	292.2	12.214	403.597	534.003	0.259	0.347	8.961	12.214	2.658
2022-10-03 18:00	8838022	8.226	-116.539	290.472	12.191	403.122	533.688	0.259	0.347	8.878	12.191	2.5
2022-10-03 18:15	8838922	8.267	-118.799	290.918	12.187	402.656	533.127	0.258	0.347	9.267	12.187	2.984
2022-10-03 18:30	8839822	8.259	-118.313	290.255	12.123	402.226	533.419	0.259	0.347	9.260	12.123	3.671
2022-10-03 18:45	8840722	8.249	-117.738	291.099	12.08	402.043	533.76	0.259	0.347	9.032	12.08	3.378
2022-10-03 19:00	8841622	8.228	-116.599	292.443	12.042	401.906	534.091	0.259	0.347	8.688	12.042	3.205
2022-10-03 19:15	8842522	8.202	-115.154	293.85	12.007	401.613	534.182	0.259	0.347	8.585	12.007	3.092
2022-10-03 19:30	8843422	8.188	-114.355	294.162	11.982	401.401	534.234	0.259	0.347	8.469	11.982	2.567
2022-10-03 19:45	8844322	8.174	-113.597	293.724	11.954	401.247	534.41	0.259	0.347	8.395	11.954	2.574
2022-10-03 20:00	8845222	8.172	-113.466	291.936	11.909	400.93	534.604	0.259	0.347	8.234	11.909	2.384
2022-10-03 20:15	8846122	8.172	-113.447	293.769	11.892	400.776	534.627	0.259	0.348	8.114	11.892	2.388
2022-10-03 20:30	8847022	8.184	-114.09	295.583	11.875	400.531	534.538	0.259	0.347	7.984	11.875	2.498
2022-10-03 20:45	8847922	8.191	-114.448	296.554	11.868	400.839	535.041	0.259	0.348	8.141	11.868	2.531
2022-10-03 21:00	8848822	8.184	-114.086	296.532	11.872	400.808	534.946	0.259	0.348	7.960	11.872	2.699
2022-10-03 21:15	8849722	8.181	-113.914	296.647	11.874	400.77	534.865	0.259	0.348	7.950	11.874	2.659
2022-10-03 21:30	8850622	8.180	-113.854	297.183	11.874	400.667	534.73	0.259	0.348	8.160	11.874	2.23
2022-10-03 21:45	8851522	8.161	-112.827	297.081	11.866	400.772	534.971	0.259	0.348	7.867	11.866	2.142
2022-10-03 22:00	8852422	8.192	-114.541	294.353	11.85	400.475	534.798	0.259	0.348	7.844	11.85	2.324
2022-10-03 22:15	8853322	8.162	-112.848	296.458	11.826	399.791	534.204	0.259	0.347	7.708	11.826	2.201
2022-10-03 22:30	8854222	8.180	-113.842	297.872	11.815	399.724	534.276	0.259	0.347	7.669	11.815	2.133
2022-10-03 22:45	8855122	8.195	-114.653	298.382	11.797	399.579	534.325	0.259	0.347	7.640	11.797	2.074

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-03 23:00	8856022	8.185	-114.121	298.421	11.77	399.51	534.603	0.259	0.347	7.678	11.77	2.574
2022-10-03 23:15	8856922	8.188	-114.257	298.413	11.76	399.578	534.826	0.259	0.348	7.639	11.76	2.053
2022-10-03 23:30	8857822	8.176	-113.616	297.617	11.727	399.329	534.943	0.259	0.348	7.468	11.727	2.053
2022-10-03 23:45	8858722	8.170	-113.254	297.634	11.704	399.099	534.958	0.259	0.348	7.440	11.704	2.457
2022-10-04 00:00	8859622	8.143	-111.73	295.867	11.645	398.323	534.716	0.259	0.348	7.512	11.645	2.101
2022-10-04 00:15	8860522	8.169	-113.142	296.699	11.615	397.751	534.365	0.259	0.347	7.651	11.615	2.292
2022-10-04 00:30	8861422	8.168	-113.072	297.534	11.583	397.81	534.882	0.259	0.348	7.702	11.583	2.146
2022-10-04 00:45	8862322	8.178	-113.609	297.841	11.543	396.984	534.321	0.259	0.347	7.732	11.543	2.289
2022-10-04 01:00	8863222	8.193	-114.408	296.609	11.473	396.889	535.148	0.259	0.348	7.830	11.473	3.639
2022-10-04 01:15	8864122	8.173	-113.335	296.84	11.466	396.875	535.231	0.259	0.348	7.861	11.466	2.551
2022-10-04 01:30	8865022	8.169	-113.08	296.716	11.41	396.152	535.026	0.259	0.348	7.786	11.41	2.868
2022-10-04 01:45	8865922	8.211	-115.383	293.612	11.341	395.265	534.782	0.259	0.348	8.064	11.341	3.066
2022-10-04 02:00	8866822	8.200	-114.748	292.315	11.292	394.677	534.658	0.259	0.348	8.117	11.292	3.292
2022-10-04 02:15	8867722	8.200	-114.722	293.619	11.255	394.154	534.471	0.259	0.347	8.062	11.255	2.723
2022-10-04 02:30	8868622	8.192	-114.253	295.65	11.187	393.482	534.504	0.259	0.347	8.003	11.187	3.104
2022-10-04 02:45	8869522	8.191	-114.195	295.474	11.166	393.364	534.632	0.259	0.348	7.978	11.166	3.178
2022-10-04 03:00	8870422	8.181	-113.621	295.185	11.122	392.967	534.7	0.259	0.348	7.947	11.122	3.347
2022-10-04 03:15	8871322	8.179	-113.537	296.475	11.117	392.977	534.789	0.259	0.348	7.812	11.117	3.84
2022-10-04 03:30	8872222	8.170	-112.987	295.693	11.091	392.782	534.884	0.259	0.348	7.760	11.091	2.974
2022-10-04 03:45	8873122	8.173	-113.173	295.951	11.044	392.282	534.854	0.259	0.348	7.694	11.044	3.665
2022-10-04 04:00	8874022	8.169	-112.915	294.816	11.001	391.959	535.007	0.259	0.348	7.794	11.001	2.981
2022-10-04 04:15	8874922	8.183	-113.671	295.908	10.985	391.72	534.912	0.259	0.348	7.691	10.985	2.727
2022-10-04 04:30	8875822	8.175	-113.227	297.844	10.926	391.193	535.013	0.259	0.348	7.654	10.926	2.602
2022-10-04 04:45	8876722	8.172	-113.046	298.349	10.922	391.202	535.081	0.259	0.348	7.667	10.922	2.799
2022-10-04 05:00	8877622	8.157	-112.197	300.039	10.892	390.837	534.994	0.259	0.348	7.593	10.892	3.413
2022-10-04 05:15	8878522	8.165	-112.672	299.885	10.888	390.813	535.017	0.259	0.348	7.559	10.888	3.231
2022-10-04 05:30	8879423	8.155	-112.114	299.36	10.868	390.513	534.893	0.259	0.348	7.659	10.868	3.71
2022-10-04 05:45	8880323	8.166	-112.705	300.104	10.829	390.073	534.828	0.259	0.348	7.583	10.829	3.534
2022-10-04 06:00	8881223	8.164	-112.567	298.182	10.792	389.883	535.087	0.259	0.348	7.667	10.792	2.958
2022-10-04 06:15	8882123	8.155	-112.04	299.572	10.773	389.681	535.085	0.259	0.348	7.576	10.773	2.965
2022-10-04 06:30	8883023	8.165	-112.598	300.011	10.737	389.223	534.951	0.259	0.348	7.660	10.737	2.895
2022-10-04 06:45	8883923	8.176	-113.158	300.061	10.688	388.645	534.856	0.259	0.348	7.737	10.688	2.942
2022-10-04 07:00	8884823	8.166	-112.598	300.385	10.656	388.369	534.917	0.259	0.348	7.696	10.656	3.105
2022-10-04 07:15	8885723	8.168	-112.7	300.69	10.649	388.305	534.932	0.259	0.348	7.687	10.649	3.756
2022-10-04 07:30	8886623	8.167	-112.646	300.731	10.617	388.088	535.08	0.259	0.348	7.669	10.617	3.676
2022-10-04 07:45	8887523	8.147	-111.568	299.668	10.607	387.865	534.922	0.259	0.348	7.624	10.607	2.946
2022-10-04 08:00	8888423	8.143	-111.308	299.999	10.56	387.655	535.295	0.259	0.348	7.801	10.56	3.369
2022-10-04 08:15	8889323	8.140	-111.151	300.314	10.549	387.496	535.227	0.259	0.348	7.461	10.549	3.312
2022-10-04 08:30	8890223	8.151	-111.725	301.182	10.54	387.463	535.306	0.259	0.348	7.399	10.54	2.659
2022-10-04 08:45	8891123	8.154	-111.892	301.94	10.503	386.875	535.019	0.259	0.348	7.350	10.503	2.539
2022-10-04 09:00	8892023	8.147	-111.525	301.418	10.475	386.674	535.135	0.259	0.348	7.491	10.475	2.763
2022-10-04 09:15	8892923	8.167	-112.562	301.966	10.447	386.194	534.86	0.258	0.348	7.449	10.447	3.38
2022-10-04 09:30	8893823	8.166	-112.543	300.392	10.411	385.809	534.847	0.258	0.348	7.663	10.411	3.434
2022-10-04 09:45	8894723	8.175	-112.998	298.332	10.394	385.73	534.982	0.259	0.348	7.736	10.394	2.763
2022-10-04 10:00	8895623	8.173	-112.894	297.105	10.354	385.379	535.054	0.259	0.348	7.683	10.354	3.447
2022-10-04 10:15	8896523	8.175	-112.998	295.5	10.359	385.357	534.952	0.258	0.348	7.623	10.359	2.637
2022-10-04 10:30	8897423	8.180	-113.258	297.658	10.365	385.494	535.064	0.259	0.348	7.551	10.365	2.606
2022-10-04 10:45	8898323	8.168	-112.634	299.424	10.373	385.647	535.164	0.259	0.348	7.574	10.373	2.579

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-04 11:00	8899223	8.155	-111.897	299.896	10.382	385.714	535.119	0.259	0.348	7.583	10.382	2.439
2022-10-04 11:15	8900123	8.152	-111.725	301.046	10.404	385.803	534.938	0.259	0.348	7.618	10.404	2.442
2022-10-04 11:30	8901023	8.147	-111.477	301.389	10.422	385.956	534.891	0.258	0.348	7.496	10.422	2.279
2022-10-04 11:45	8901923	8.128	-110.474	301.255	10.446	386.219	534.922	0.259	0.348	7.449	10.446	2.392
2022-10-04 12:00	8902823	8.123	-110.159	299.164	10.464	386.559	535.134	0.259	0.348	7.434	10.464	3.012
2022-10-04 12:15	8903723	8.134	-110.776	298.249	10.494	387.102	535.463	0.259	0.348	7.605	10.494	2.854
2022-10-04 12:30	8904623	8.122	-110.145	299.305	10.535	387.549	535.496	0.259	0.348	7.459	10.535	2.558
2022-10-04 12:45	8905523	8.115	-109.782	300.523	10.581	388.077	535.581	0.259	0.348	7.353	10.581	2.664
2022-10-04 13:00	8906423	8.124	-110.316	299.374	10.644	388.497	535.273	0.259	0.348	7.363	10.644	2.77
2022-10-04 13:15	8907323	8.111	-109.611	300.366	10.743	389.645	535.459	0.259	0.348	7.275	10.743	2.426
2022-10-04 13:30	8908223	8.092	-108.624	300.478	10.844	390.628	535.384	0.259	0.348	6.963	10.844	2.106
2022-10-04 13:45	8909123	8.072	-107.589	299.987	10.958	391.347	534.775	0.259	0.348	7.103	10.958	2.321
2022-10-04 14:00	8910023	8.092	-108.707	298.163	11.062	392.529	534.941	0.259	0.348	7.399	11.062	2.42
2022-10-04 14:15	8910923	8.089	-108.616	297.996	11.178	393.828	535.088	0.259	0.348	7.669	11.178	2.461
2022-10-04 14:30	8911823	8.093	-108.86	297.608	11.305	394.993	534.916	0.259	0.348	7.701	11.305	2.519
2022-10-04 14:45	8912723	8.092	-108.862	297.512	11.45	396.336	534.728	0.259	0.348	7.841	11.45	2.687
2022-10-04 15:00	8913623	8.131	-111.06	295.424	11.624	398.231	534.89	0.259	0.348	7.944	11.624	2.859
2022-10-04 15:15	8914523	8.118	-110.414	292.868	11.815	400.037	534.683	0.259	0.348	8.024	11.815	3.033
2022-10-04 15:30	8915423	8.153	-112.405	291.619	11.861	400.616	534.831	0.259	0.348	8.203	11.861	2.574
2022-10-04 15:45	8916323	8.208	-115.411	289.01	11.892	400.358	534.065	0.259	0.347	8.490	11.892	2.513
2022-10-04 16:00	8917223	8.252	-117.81	286.895	11.83	398.644	532.625	0.258	0.346	8.832	11.83	2.961
2022-10-04 16:15	8918123	8.286	-119.739	283.677	11.913	399.191	532.226	0.258	0.346	9.416	11.913	3.633
2022-10-04 16:30	8919023	8.199	-115.061	285.856	12.174	402.644	533.283	0.259	0.347	9.186	12.174	2.998
2022-10-04 16:45	8919923	8.185	-114.372	282.692	12.409	406.193	534.805	0.259	0.348	8.794	12.409	3.09
2022-10-04 17:00	8920823	8.179	-114.11	277.909	12.543	408.567	536.123	0.260	0.348	8.528	12.543	2.961
2022-10-04 17:15	8921723	8.163	-113.242	275.084	12.629	409.692	536.448	0.260	0.349	8.478	12.629	2.645
2022-10-04 17:30	8922623	8.167	-113.442	274.872	12.653	410.049	536.598	0.260	0.349	8.346	12.653	2.495
2022-10-04 17:45	8923523	8.166	-113.373	275.981	12.629	409.989	536.835	0.260	0.349	8.232	12.629	2.988
2022-10-04 18:00	8924423	8.150	-112.498	275.921	12.566	409.379	536.889	0.260	0.349	8.125	12.566	2.693
2022-10-04 18:15	8925323	8.170	-113.549	275.754	12.499	408.425	536.526	0.260	0.349	8.358	12.499	2.657
2022-10-04 18:30	8926223	8.186	-114.448	275.871	12.438	407.314	535.893	0.260	0.348	8.494	12.438	2.665
2022-10-04 18:45	8927123	8.178	-113.957	276.686	12.388	406.68	535.737	0.260	0.348	8.607	12.388	2.848
2022-10-04 19:00	8928023	8.203	-115.335	277.528	12.316	406.428	536.378	0.260	0.349	8.438	12.316	3.388
2022-10-04 19:15	8928923	8.173	-113.649	279.056	12.28	406.245	536.623	0.260	0.349	8.518	12.28	2.962
2022-10-04 19:30	8929823	8.169	-113.397	279.893	12.238	405.909	536.741	0.260	0.349	8.424	12.238	2.805
2022-10-04 19:45	8930723	8.181	-114.036	280.375	12.17	405.02	536.484	0.260	0.349	8.273	12.17	2.76
2022-10-04 20:00	8931623	8.183	-114.11	280.68	12.109	404.158	536.169	0.260	0.349	8.430	12.109	2.615
2022-10-04 20:15	8932523	8.194	-114.689	282.201	12.053	403.28	535.767	0.260	0.348	8.172	12.053	2.79
2022-10-04 20:30	8933423	8.217	-115.976	284.187	12.005	402.122	534.885	0.259	0.348	8.171	12.005	2.76
2022-10-04 20:45	8934323	8.199	-114.968	286.283	11.965	401.335	534.375	0.259	0.347	8.261	11.965	2.473
2022-10-04 21:00	8935223	8.224	-116.291	286.142	11.918	401.216	534.863	0.259	0.348	8.324	11.918	2.603
2022-10-04 21:15	8936123	8.214	-115.736	287.775	11.867	400.792	534.982	0.259	0.348	8.375	11.867	2.475
2022-10-04 21:30	8937023	8.196	-114.748	287.611	11.81	399.996	534.7	0.259	0.348	8.441	11.81	2.373
2022-10-04 21:45	8937923	8.180	-113.84	288.874	11.739	399.3	534.743	0.259	0.348	8.326	11.739	2.478
2022-10-04 22:00	8938823	8.184	-113.995	289.47	11.647	397.989	534.238	0.259	0.347	8.249	11.647	2.332
2022-10-04 22:15	8939723	8.189	-114.226	291.13	11.586	396.901	533.625	0.258	0.347	8.213	11.586	2.179
2022-10-04 22:30	8940623	8.176	-113.518	293.044	11.538	397.144	534.607	0.259	0.347	8.253	11.538	2.439
2022-10-04 22:45	8941523	8.180	-113.726	294.735	11.503	396.77	534.584	0.259	0.347	7.940	11.503	2.446

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-04 23:00	8942423	8.179	-113.661	295.297	11.469	396.8	535.094	0.259	0.348	7.954	11.469	2.946
2022-10-04 23:15	8943323	8.171	-113.225	296.573	11.441	396.628	535.247	0.259	0.348	7.905	11.441	2.512
2022-10-04 23:30	8944223	8.153	-112.193	296.294	11.399	396.394	535.514	0.259	0.348	7.840	11.399	2.693
2022-10-04 23:45	8945123	8.163	-112.722	296.764	11.377	396.134	535.468	0.259	0.348	7.608	11.377	2.727
2022-10-05 00:00	8946023	8.201	-114.801	293.454	11.31	395.162	535.07	0.259	0.348	7.771	11.31	3.361
2022-10-05 00:15	8946923	8.225	-116.131	293.557	11.294	394.883	534.922	0.259	0.348	8.207	11.294	3.483
2022-10-05 00:30	8947823	8.221	-115.862	294.32	11.276	394.732	534.96	0.259	0.348	8.224	11.276	3.564
2022-10-05 00:45	8948723	8.220	-115.821	295.572	11.255	394.537	534.985	0.259	0.348	8.197	11.255	3.229
2022-10-05 01:00	8949623	8.203	-114.894	296.041	11.242	394.4	534.978	0.259	0.348	8.150	11.242	5.402
2022-10-05 01:15	8950523	8.204	-114.923	296.928	11.236	394.343	534.988	0.259	0.348	8.154	11.236	3.413
2022-10-05 01:30	8951423	8.184	-113.859	296.377	11.229	394.483	535.27	0.259	0.348	7.967	11.229	2.751
2022-10-05 01:45	8952323	8.173	-113.242	297.498	11.219	394.444	535.364	0.259	0.348	7.856	11.219	2.915
2022-10-05 02:00	8953223	8.161	-112.565	290.984	11.208	394.538	535.643	0.259	0.348	7.748	11.208	2.763
2022-10-05 02:15	8954123	8.144	-111.642	293.385	11.202	394.641	535.865	0.259	0.348	7.573	11.202	2.532
2022-10-05 02:30	8955023	8.133	-111.012	295.19	11.189	394.562	535.937	0.259	0.348	7.322	11.189	2.943
2022-10-05 02:45	8955923	8.132	-110.974	295.529	11.184	394.455	535.859	0.259	0.348	7.250	11.184	2.922
2022-10-05 03:00	8956823	8.188	-114.002	293.261	11.145	393.82	535.541	0.259	0.348	7.959	11.145	2.978
2022-10-05 03:15	8957723	8.218	-115.671	291.299	11.124	393.445	535.328	0.259	0.348	8.240	11.124	3.16
2022-10-05 03:30	8958623	8.252	-117.49	289.33	11.087	392.958	535.179	0.259	0.348	8.497	11.087	3.803
2022-10-05 03:45	8959523	8.255	-117.648	289.273	11.067	392.846	535.296	0.259	0.348	8.569	11.067	3.531
2022-10-05 04:00	8960423	8.245	-117.114	288.715	11.03	392.517	535.371	0.259	0.348	8.577	11.03	3.663
2022-10-05 04:15	8961323	8.271	-118.511	289.664	10.986	391.987	535.257	0.259	0.348	8.665	10.986	4.055
2022-10-05 04:30	8962223	8.263	-118.065	290.875	10.969	391.818	535.269	0.259	0.348	8.626	10.969	3.453
2022-10-05 04:45	8963123	8.262	-118.003	292.68	10.945	391.602	535.298	0.259	0.348	8.620	10.945	3.987
2022-10-05 05:00	8964023	8.229	-116.21	294.162	10.935	391.555	535.382	0.259	0.348	8.487	10.935	3.472
2022-10-05 05:15	8964923	8.216	-115.464	295.519	10.935	391.707	535.583	0.259	0.348	8.335	10.935	2.702
2022-10-05 05:30	8965823	8.194	-114.233	296.554	10.92	391.748	535.858	0.259	0.348	8.079	10.92	2.609
2022-10-05 05:45	8966723	8.177	-113.294	296.475	10.91	391.704	535.938	0.259	0.348	7.888	10.91	2.776
2022-10-05 06:00	8967623	8.156	-112.181	295.557	10.897	391.874	536.344	0.259	0.349	7.637	10.897	2.68
2022-10-05 06:15	8968523	8.146	-111.594	297.469	10.891	391.78	536.304	0.259	0.349	7.521	10.891	2.309
2022-10-05 06:30	8969423	8.134	-110.946	299.679	10.867	391.436	536.169	0.259	0.349	7.276	10.867	2.097
2022-10-05 06:45	8970323	8.139	-111.225	301.227	10.84	391.244	536.286	0.259	0.349	7.191	10.84	2.151
2022-10-05 07:00	8971223	8.129	-110.645	300.433	10.823	391.203	536.473	0.259	0.349	7.148	10.823	2.736
2022-10-05 07:15	8972123	8.140	-111.227	301.027	10.795	390.861	536.399	0.259	0.349	7.158	10.795	2.558
2022-10-05 07:30	8973023	8.135	-110.939	298.557	10.771	390.574	536.329	0.259	0.349	7.272	10.771	3.031
2022-10-05 07:45	8973923	8.142	-111.327	296.485	10.748	390.292	536.268	0.259	0.349	7.365	10.748	3.072
2022-10-05 08:00	8974823	8.143	-111.361	295.302	10.706	390.067	536.559	0.259	0.349	7.365	10.706	2.463
2022-10-05 08:15	8975723	8.143	-111.375	296.668	10.685	389.728	536.387	0.259	0.349	7.271	10.685	2.626
2022-10-05 08:30	8976623	8.137	-111.039	297.856	10.674	389.739	536.548	0.259	0.349	7.342	10.674	2.696
2022-10-05 08:45	8977523	8.139	-111.125	297.622	10.655	390.027	537.213	0.260	0.349	7.338	10.655	2.473
2022-10-05 09:00	8978423	8.129	-110.605	297.045	10.636	389.276	536.459	0.259	0.349	7.295	10.636	2.575
2022-10-05 09:15	8979323	8.137	-111.005	296.177	10.637	389.326	536.503	0.259	0.349	7.311	10.637	2.435
2022-10-05 09:30	8980223	8.121	-110.142	296.084	10.637	389.355	536.545	0.259	0.349	7.203	10.637	3.348
2022-10-05 09:45	8981123	8.125	-110.364	296.654	10.629	389.271	536.549	0.259	0.349	7.208	10.629	2.608
2022-10-05 10:00	8982023	8.120	-110.073	293.712	10.624	389.348	536.723	0.260	0.349	7.251	10.624	2.567
2022-10-05 10:15	8982923	8.118	-109.994	295.266	10.632	389.406	536.696	0.260	0.349	7.123	10.632	2.317
2022-10-05 10:30	8983823	8.149	-111.673	295.669	10.642	389.228	536.298	0.259	0.349	7.760	10.642	3.027
2022-10-05 10:45	8984723	8.178	-113.304	294.177	10.663	389.34	536.155	0.259	0.349	7.890	10.663	2.588

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-05 11:00	8985623	8.165	-112.576	295.116	10.67	389.341	536.066	0.259	0.348	7.609	10.67	2.798
2022-10-05 11:15	8986523	8.170	-112.872	296.573	10.679	389.394	536.008	0.259	0.348	7.420	10.679	2.672
2022-10-05 11:30	8987423	8.188	-113.85	294.563	10.688	389.233	535.666	0.259	0.348	7.798	10.688	3.246
2022-10-05 11:45	8988323	8.189	-113.873	293.495	10.703	389.436	535.73	0.259	0.348	7.716	10.703	2.618
2022-10-05 12:00	8989223	8.177	-113.249	291.099	10.723	389.596	535.665	0.259	0.348	7.716	10.723	2.917
2022-10-05 12:15	8990123	8.167	-112.686	293.166	10.757	389.813	535.489	0.259	0.348	7.911	10.757	2.759
2022-10-05 12:30	8991023	8.173	-113.049	295.13	10.789	390.023	535.333	0.259	0.348	7.804	10.789	2.379
2022-10-05 12:45	8991923	8.179	-113.373	296.163	10.821	390.43	535.441	0.259	0.348	7.945	10.821	2.382
2022-10-05 13:00	8992823	8.157	-112.219	296.287	10.845	390.829	535.649	0.259	0.348	7.753	10.845	2.359
2022-10-05 13:15	8993723	8.152	-111.947	298.099	10.878	391.139	535.615	0.259	0.348	7.703	10.878	2.146
2022-10-05 13:30	8994623	8.159	-112.345	298.282	10.908	391.446	535.616	0.259	0.348	7.604	10.908	2.596
2022-10-05 13:45	8995523	8.174	-113.189	296.933	10.941	391.654	535.437	0.259	0.348	7.669	10.941	2.139
2022-10-05 14:00	8996423	8.170	-112.946	293.586	10.974	392.081	535.55	0.259	0.348	7.767	10.974	2.159
2022-10-05 14:15	8997323	8.179	-113.499	294.73	11.052	392.485	535.017	0.259	0.348	7.964	11.052	2.391
2022-10-05 14:30	8998223	8.189	-114.048	294.995	11.121	392.938	534.675	0.259	0.348	8.143	11.121	2.625
2022-10-05 14:45	8999123	8.200	-114.717	294.773	11.215	393.817	534.561	0.259	0.347	8.251	11.215	2.474
2022-10-05 15:00	9000023	8.178	-113.578	294.186	11.385	395.95	535.109	0.259	0.348	8.257	11.385	2.695
2022-10-05 15:15	9000923	8.190	-114.276	291.278	11.561	397.864	535.255	0.259	0.348	8.473	11.561	2.846
2022-10-05 15:30	9001823	8.186	-114.095	285.918	11.642	398.759	535.341	0.259	0.348	8.384	11.642	2.473
2022-10-05 15:45	9002723	8.184	-114.024	284.001	11.688	399.393	535.567	0.259	0.348	8.285	11.688	2.268
2022-10-05 16:00	9003623	8.166	-113.02	284.342	11.688	399.644	535.897	0.260	0.348	8.197	11.688	2.36
2022-10-05 16:15	9004523	8.170	-113.249	286.316	11.696	399.415	535.488	0.259	0.348	8.037	11.696	2.151
2022-10-05 16:30	9005423	8.188	-114.236	285.098	11.744	399.9	535.481	0.259	0.348	8.140	11.744	2.29
2022-10-05 16:45	9006323	8.189	-114.3	286.376	11.764	399.895	535.195	0.259	0.348	8.191	11.764	2.394
2022-10-05 17:00	9007223	8.208	-115.399	286.605	11.783	400.068	535.166	0.259	0.348	8.115	11.783	2.669
2022-10-05 17:15	9008123	8.207	-115.366	286.707	11.827	400.164	534.69	0.259	0.348	8.647	11.827	2.5
2022-10-05 17:30	9009023	8.213	-115.688	285.889	11.888	400.951	534.911	0.259	0.348	8.981	11.888	2.543
2022-10-05 17:45	9009924	8.192	-114.539	286.633	11.953	402.165	535.647	0.260	0.348	8.439	11.953	1.934
2022-10-05 18:00	9010824	8.150	-112.29	288.605	11.991	402.739	535.9	0.260	0.348	8.076	11.991	2.517
2022-10-05 18:15	9011724	8.145	-112.023	290.527	12.021	403.275	536.204	0.260	0.349	7.999	12.021	1.974
2022-10-05 18:30	9012624	8.141	-111.756	292.265	12.019	403.114	536.016	0.260	0.348	7.773	12.019	2.311
2022-10-05 18:45	9013524	8.168	-113.277	290.369	12.01	402.845	535.777	0.260	0.348	7.876	12.01	2.407
2022-10-05 19:00	9014424	8.194	-114.698	288.886	11.984	402.462	535.619	0.260	0.348	8.047	11.984	2.949
2022-10-05 19:15	9015324	8.193	-114.634	287.868	11.972	402.397	535.698	0.260	0.348	8.149	11.972	2.162
2022-10-05 19:30	9016224	8.174	-113.547	287.353	11.911	401.333	535.115	0.259	0.348	8.696	11.911	2.284
2022-10-05 19:45	9017124	8.195	-114.689	285.36	11.861	400.988	535.332	0.259	0.348	8.661	11.861	2.577
2022-10-05 20:00	9018024	8.206	-115.297	283.863	11.802	400.173	535.044	0.259	0.348	8.613	11.802	2.228
2022-10-05 20:15	9018924	8.226	-116.394	283.91	11.778	399.761	534.821	0.259	0.348	8.524	11.778	2.381
2022-10-05 20:30	9019824	8.225	-116.282	282.339	11.736	399.45	534.977	0.259	0.348	8.634	11.736	2.834
2022-10-05 20:45	9020724	8.221	-116.041	282.68	11.693	399.005	534.981	0.259	0.348	8.640	11.693	2.568
2022-10-05 21:00	9021624	8.222	-116.098	282.404	11.675	399.077	535.32	0.259	0.348	8.557	11.675	2.561
2022-10-05 21:15	9022524	8.187	-114.141	285.312	11.647	399.048	535.662	0.259	0.348	8.337	11.647	2.32
2022-10-05 21:30	9023424	8.168	-113.113	286.888	11.595	398.614	535.801	0.260	0.348	8.061	11.595	2.177
2022-10-05 21:45	9024324	8.180	-113.726	286.657	11.527	397.979	535.884	0.260	0.348	8.072	11.527	2.687
2022-10-05 22:00	9025224	8.156	-112.402	286.364	11.465	397.678	536.334	0.260	0.349	7.896	11.465	3.178
2022-10-05 22:15	9026124	8.129	-110.9	288.154	11.432	397.289	536.259	0.260	0.349	7.564	11.432	2.988
2022-10-05 22:30	9027024	8.116	-110.166	290.398	11.382	396.654	536.089	0.260	0.348	7.325	11.382	3.395
2022-10-05 22:45	9027924	8.124	-110.548	291.611	11.297	395.834	536.16	0.260	0.349	7.434	11.297	3.297

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-05 23:00	9028824	8.146	-111.749	289.647	11.257	395.388	536.117	0.260	0.348	7.483	11.257	3.337
2022-10-05 23:15	9029724	8.142	-111.496	288.662	11.223	395.09	536.185	0.260	0.349	7.686	11.223	2.676
2022-10-05 23:30	9030624	8.144	-111.623	285.646	11.186	394.631	536.075	0.259	0.348	7.634	11.186	2.575
2022-10-05 23:45	9031524	8.146	-111.706	284.349	11.155	394.352	536.12	0.259	0.348	7.455	11.155	2.448
2022-10-06 00:00	9032424	8.139	-111.32	283	11.068	393.546	536.244	0.259	0.349	7.659	11.068	2.75
2022-10-06 00:15	9033324	8.135	-111.055	281.007	11.014	392.698	535.836	0.259	0.348	7.660	11.014	2.656
2022-10-06 00:30	9034224	8.147	-111.682	281.824	10.982	392.417	535.9	0.259	0.348	7.558	10.982	2.314
2022-10-06 00:45	9035124	8.127	-110.559	282.969	10.92	391.973	536.158	0.259	0.349	7.485	10.92	3.088
2022-10-06 01:00	9036024	8.142	-111.365	281.612	10.868	391.604	536.386	0.259	0.349	7.454	10.868	3.867
2022-10-06 01:15	9036924	8.125	-110.419	281.767	10.833	391.407	536.603	0.260	0.349	7.373	10.833	3.17
2022-10-06 01:30	9037824	8.129	-110.621	282.528	10.808	391.143	536.596	0.260	0.349	7.268	10.808	2.704
2022-10-06 01:45	9038724	8.130	-110.662	283.138	10.776	390.773	536.538	0.259	0.349	7.240	10.776	2.287
2022-10-06 02:00	9039624	8.141	-111.234	282.122	10.693	389.9	536.507	0.259	0.349	7.196	10.693	2.606
2022-10-06 02:15	9040524	8.158	-112.174	284.101	10.627	388.789	535.902	0.259	0.348	7.430	10.627	2.784
2022-10-06 02:30	9041424	8.176	-113.146	283.469	10.581	388.246	535.816	0.259	0.348	7.680	10.581	2.977
2022-10-06 02:45	9042324	8.190	-113.859	283.562	10.527	387.784	535.931	0.259	0.348	7.864	10.527	2.961
2022-10-06 03:00	9043224	8.173	-112.948	282.969	10.488	387.488	536.084	0.259	0.348	7.938	10.488	2.703
2022-10-06 03:15	9044124	8.171	-112.839	284.087	10.465	387.231	536.052	0.259	0.348	7.817	10.465	3.033
2022-10-06 03:30	9045024	8.172	-112.829	282.087	10.411	386.736	536.131	0.259	0.348	7.837	10.411	2.902
2022-10-06 03:45	9045924	8.164	-112.417	281.789	10.372	386.377	536.189	0.259	0.349	7.763	10.372	3.515
2022-10-06 04:00	9046824	8.162	-112.274	279.807	10.333	386.083	536.33	0.259	0.349	7.686	10.333	2.653
2022-10-06 04:15	9047724	8.167	-112.517	281.269	10.315	385.973	536.43	0.259	0.349	7.582	10.315	2.503
2022-10-06 04:30	9048624	8.149	-111.547	283.775	10.32	386.24	536.732	0.259	0.349	7.538	10.32	2.77
2022-10-06 04:45	9049524	8.145	-111.341	285.546	10.293	385.75	536.441	0.259	0.349	7.604	10.293	2.946
2022-10-06 05:00	9050424	8.148	-111.463	286.288	10.255	385.213	536.233	0.259	0.349	7.616	10.255	2.698
2022-10-06 05:15	9051324	8.150	-111.551	284.893	10.232	385.07	536.356	0.259	0.349	7.553	10.232	3.011
2022-10-06 05:30	9052224	8.151	-111.611	285.451	10.224	384.869	536.196	0.259	0.349	7.656	10.224	2.248
2022-10-06 05:45	9053124	8.150	-111.561	285.703	10.223	384.812	536.123	0.259	0.348	7.669	10.223	2.075
2022-10-06 06:00	9054024	8.140	-111.041	285.286	10.217	385.014	536.497	0.259	0.349	7.572	10.217	2.98
2022-10-06 06:15	9054924	8.131	-110.5	287.739	10.214	385.08	536.626	0.259	0.349	7.498	10.214	2.083
2022-10-06 06:30	9055824	8.142	-111.134	290.074	10.199	384.346	535.818	0.259	0.348	7.338	10.199	2.396
2022-10-06 06:45	9056724	8.142	-111.091	291.518	10.189	384.558	536.254	0.259	0.349	7.510	10.189	2.427
2022-10-06 07:00	9057624	8.129	-110.424	292.308	10.18	384.527	536.341	0.259	0.349	7.425	10.18	2.231
2022-10-06 07:15	9058524	8.130	-110.457	292.298	10.167	384.524	536.523	0.259	0.349	7.313	10.167	2.602
2022-10-06 07:30	9059424	8.116	-109.706	292.234	10.155	384.487	536.649	0.259	0.349	7.274	10.155	2.4
2022-10-06 07:45	9060324	8.121	-109.944	291.521	10.138	384.319	536.651	0.259	0.349	7.259	10.138	2.553
2022-10-06 08:00	9061224	8.129	-110.369	289.497	10.116	384.196	536.803	0.259	0.349	7.225	10.116	2.307
2022-10-06 08:15	9062124	8.127	-110.259	291.406	10.108	384.024	536.668	0.259	0.349	7.073	10.108	2.265
2022-10-06 08:30	9063024	8.122	-109.951	293.035	10.063	383.233	536.207	0.259	0.349	7.236	10.063	2.636
2022-10-06 08:45	9063924	8.146	-111.263	292.405	10.012	382.558	535.999	0.259	0.348	7.464	10.012	2.631
2022-10-06 09:00	9064824	8.135	-110.676	292.045	9.982	382.39	536.194	0.259	0.349	7.529	9.982	3.092
2022-10-06 09:15	9065724	8.137	-110.784	292.179	9.967	382.203	536.15	0.259	0.348	7.384	9.967	3.255
2022-10-06 09:30	9066624	8.140	-110.9	290.865	9.942	382.031	536.259	0.259	0.349	7.483	9.942	2.862
2022-10-06 09:45	9067524	8.135	-110.607	289.926	9.928	381.794	536.136	0.259	0.348	7.441	9.928	2.933
2022-10-06 10:00	9068424	8.143	-111.051	288.405	9.927	382.014	536.454	0.259	0.349	7.522	9.927	2.567
2022-10-06 10:15	9069324	8.114	-109.513	291.204	9.937	382.336	536.769	0.259	0.349	7.127	9.937	1.905
2022-10-06 10:30	9070224	8.128	-110.24	293.557	9.909	381.667	536.231	0.259	0.349	7.000	9.909	2.3
2022-10-06 10:45	9071124	8.141	-110.946	292.417	9.843	380.72	535.842	0.259	0.348	7.410	9.843	2.725

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-06 11:00	9072024	8.151	-111.442	290.36	9.823	380.647	536.03	0.259	0.348	7.704	9.823	2.625
2022-10-06 11:15	9072924	8.156	-111.737	289.683	9.814	380.543	536.018	0.259	0.348	7.758	9.814	2.761
2022-10-06 11:30	9073824	8.167	-112.331	288.951	9.821	380.448	535.784	0.259	0.348	7.774	9.821	2.095
2022-10-06 11:45	9074724	8.161	-111.995	289.737	9.835	380.652	535.871	0.259	0.348	7.711	9.835	2.115
2022-10-06 12:00	9075624	8.142	-110.986	289.88	9.845	380.975	536.182	0.259	0.349	7.662	9.845	2.809
2022-10-06 12:15	9076524	8.138	-110.774	290.968	9.87	381.312	536.29	0.259	0.349	7.727	9.87	2.655
2022-10-06 12:30	9077424	8.132	-110.45	293.354	9.901	381.847	536.597	0.259	0.349	7.378	9.901	1.962
2022-10-06 12:45	9078324	8.109	-109.196	295.345	9.934	382.231	536.659	0.259	0.349	7.174	9.934	2.6
2022-10-06 13:00	9079224	8.104	-108.964	296.79	9.972	382.521	536.519	0.259	0.349	7.165	9.972	2.444
2022-10-06 13:15	9080124	8.110	-109.296	297.174	10.04	383.063	536.307	0.259	0.349	7.359	10.04	2.338
2022-10-06 13:30	9081024	8.108	-109.248	297.169	10.124	383.875	536.24	0.259	0.349	7.164	10.124	1.676
2022-10-06 13:45	9081924	8.102	-108.924	297.105	10.214	385.139	536.717	0.259	0.349	7.087	10.214	1.643
2022-10-06 14:00	9082824	8.089	-108.266	296.406	10.276	385.742	536.674	0.259	0.349	6.821	10.276	1.741
2022-10-06 14:15	9083724	8.093	-108.521	297.367	10.365	386.574	536.563	0.259	0.349	6.777	10.365	1.707
2022-10-06 14:30	9084624	8.079	-107.76	298.89	10.443	387.399	536.593	0.259	0.349	6.704	10.443	1.738
2022-10-06 14:45	9085524	8.067	-107.119	299.865	10.515	388.237	536.73	0.259	0.349	6.656	10.515	2.047
2022-10-06 15:00	9086424	8.077	-107.71	300.256	10.588	388.811	536.485	0.259	0.349	7.006	10.588	2.183
2022-10-06 15:15	9087324	8.089	-108.399	299.775	10.68	389.752	536.495	0.259	0.349	7.012	10.68	1.802
2022-10-06 15:30	9088224	8.102	-109.134	298.273	10.736	390.15	536.25	0.259	0.349	6.864	10.736	1.843
2022-10-06 15:45	9089124	8.131	-110.769	298.113	10.799	389.6	534.613	0.259	0.347	8.527	10.799	2.549
2022-10-06 16:00	9090024	8.157	-112.226	289.854	10.907	390.859	534.813	0.259	0.348	8.414	10.907	3.078
2022-10-06 16:15	9090924	8.172	-113.146	290.915	11.095	392.952	535.049	0.259	0.348	8.645	11.095	2.602
2022-10-06 16:30	9091824	8.169	-113.034	290.438	11.348	395.405	534.881	0.259	0.348	8.700	11.348	3.086
2022-10-06 16:45	9092724	8.175	-113.513	289.242	11.605	398.368	535.324	0.259	0.348	8.561	11.605	2.919
2022-10-06 17:00	9093624	8.189	-114.343	284.559	11.827	400.947	535.746	0.260	0.348	8.504	11.827	2.905
2022-10-06 17:15	9094524	8.192	-114.563	283.362	12.011	402.994	535.964	0.260	0.348	8.512	12.011	2.612
2022-10-06 17:30	9095424	8.179	-113.895	280.878	12.105	403.512	535.373	0.260	0.348	8.573	12.105	5.119
2022-10-06 17:45	9096324	8.176	-113.766	280.01	12.161	404.218	535.551	0.260	0.348	8.606	12.161	2.63
2022-10-06 18:00	9097224	8.222	-116.241	278.956	11.97	401.75	534.856	0.259	0.348	8.576	11.97	2.338
2022-10-06 18:15	9098124	8.337	-122.43	278.656	11.676	395.86	530.992	0.257	0.345	9.093	11.676	2.159
2022-10-06 18:30	9099024	8.334	-122.113	276.839	11.337	393.425	532.346	0.258	0.346	9.736	11.337	2.327
2022-10-06 18:45	9099924	8.324	-121.534	275.547	11.2	392.355	532.782	0.258	0.346	9.459	11.2	2.385
2022-10-06 19:00	9100824	8.288	-119.491	277.752	11.121	392.307	533.813	0.258	0.347	9.379	11.121	2.504
2022-10-06 19:15	9101724	8.272	-118.628	280.198	11.147	392.441	533.635	0.258	0.347	9.297	11.147	2.506
2022-10-06 19:30	9102624	8.260	-117.958	281.867	11.103	392.262	533.998	0.258	0.347	9.237	11.103	2.286
2022-10-06 19:45	9103524	8.265	-118.237	283.82	11.069	391.774	533.812	0.258	0.347	9.259	11.069	2.151
2022-10-06 20:00	9104424	8.241	-116.856	285.548	11.006	391.614	534.475	0.259	0.347	9.216	11.006	2.402
2022-10-06 20:15	9105324	8.222	-115.807	288.474	10.97	391.518	534.841	0.259	0.348	8.905	10.97	2.082
2022-10-06 20:30	9106224	8.196	-114.346	291.023	10.911	391.609	535.797	0.259	0.348	8.521	10.911	1.845
2022-10-06 20:45	9107124	8.170	-112.946	293.314	10.906	391.552	535.788	0.259	0.348	8.166	10.906	2.009
2022-10-06 21:00	9108024	8.156	-112.181	294.873	10.874	391.419	536.042	0.259	0.348	7.949	10.874	5.341
2022-10-06 21:15	9108924	8.136	-111.043	295.705	10.859	391.333	536.138	0.259	0.348	7.808	10.859	2.786
2022-10-06 21:30	9109824	8.124	-110.373	296.482	10.829	391.339	536.566	0.260	0.349	7.468	10.829	2.431
2022-10-06 21:45	9110724	8.134	-110.924	294.701	10.804	390.965	536.405	0.259	0.349	7.594	10.804	2.314
2022-10-06 22:00	9111624	8.125	-110.404	292.761	10.778	391.101	536.961	0.260	0.349	7.503	10.778	2.312
2022-10-06 22:15	9112524	8.119	-110.08	295.059	10.766	391.046	537.061	0.260	0.349	7.297	10.766	2.27
2022-10-06 22:30	9113424	8.099	-109.003	296.282	10.753	391.227	537.49	0.260	0.349	7.026	10.753	2.183
2022-10-06 22:45	9114324	8.097	-108.852	297.798	10.752	391.552	537.947	0.260	0.350	6.802	10.752	2.245

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-06 23:00	9115224	8.092	-108.566	298.633	10.747	391.12	537.418	0.260	0.349	6.670	10.747	2.165
2022-10-06 23:15	9116124	8.083	-108.085	299.105	10.744	391.139	537.497	0.260	0.349	6.729	10.744	2.192
2022-10-06 23:30	9117024	8.072	-107.515	299.832	10.738	391.261	537.75	0.260	0.350	6.626	10.738	1.825
2022-10-06 23:45	9117924	8.064	-107.055	300.369	10.727	391.181	537.785	0.260	0.350	***6.481***	10.727	1.982
2022-10-07 00:00	9118824	8.067	-107.181	297.469	10.693	390.75	537.683	0.260	0.349	***6.469***	10.693	2.012
2022-10-07 00:15	9119724	8.099	-108.955	297.736	10.693	390.364	537.142	0.260	0.349	6.689	10.693	2.094
2022-10-07 00:30	9120624	8.098	-108.9	298.595	10.68	390.376	537.353	0.260	0.349	6.660	10.68	1.859
2022-10-07 00:45	9121524	8.104	-109.203	300.216	10.622	389.492	536.952	0.260	0.349	6.580	10.622	1.877
2022-10-07 01:00	9122424	8.127	-110.476	299.687	10.6	389.43	537.175	0.260	0.349	6.911	10.6	2.623
2022-10-07 01:15	9123324	8.112	-109.649	299.846	10.591	389.499	537.393	0.260	0.349	6.898	10.591	2.175
2022-10-07 01:30	9124224	8.124	-110.278	300.562	10.534	388.835	537.284	0.260	0.349	6.875	10.534	2.44
2022-10-07 01:45	9125124	8.122	-110.149	296.294	10.489	388.385	537.299	0.260	0.349	7.067	10.489	2.36
2022-10-07 02:00	9126024	8.116	-109.808	295.08	10.448	387.965	537.304	0.260	0.349	7.033	10.448	2.106
2022-10-07 02:15	9126924	8.103	-109.06	296.616	10.395	386.945	536.651	0.259	0.349	6.883	10.395	2.272
2022-10-07 02:30	9127824	8.112	-109.572	297.372	10.372	386.806	536.78	0.259	0.349	6.968	10.372	1.996
2022-10-07 02:45	9128724	8.098	-108.752	299.291	10.326	386.452	536.937	0.259	0.349	6.878	10.326	1.942
2022-10-07 03:00	9129624	8.110	-109.422	298.595	10.274	386.208	537.342	0.260	0.349	6.918	10.274	2.27
2022-10-07 03:15	9130524	8.109	-109.351	299.055	10.253	386.066	537.44	0.260	0.349	6.796	10.253	2.261
2022-10-07 03:30	9131424	8.116	-109.701	299.272	10.165	384.726	536.842	0.259	0.349	7.096	10.165	2.825
2022-10-07 03:45	9132325	8.128	-110.319	296.78	10.135	384.556	537.03	0.259	0.349	7.276	10.135	2.68
2022-10-07 04:00	9133225	8.117	-109.718	295.095	10.102	384.279	537.118	0.259	0.349	7.254	10.102	2.472
2022-10-07 04:15	9134125	8.116	-109.622	297.069	10.067	383.728	536.85	0.259	0.349	7.124	10.067	1.948
2022-10-07 04:30	9135025	8.110	-109.293	298.995	10.022	383.304	536.898	0.259	0.349	6.969	10.022	2.137
2022-10-07 04:45	9135925	8.119	-109.785	298.902	9.969	382.676	536.786	0.259	0.349	7.066	9.969	2.065
2022-10-07 05:00	9136825	8.131	-110.421	297.701	9.897	382.15	537.081	0.259	0.349	7.241	9.897	2.729
2022-10-07 05:15	9137725	8.139	-110.843	297.178	9.873	381.926	537.115	0.259	0.349	7.297	9.873	2.983
2022-10-07 05:30	9138625	8.144	-111.082	295.488	9.828	381.485	537.142	0.259	0.349	7.398	9.828	3.485
2022-10-07 05:45	9139525	8.141	-110.896	294.186	9.773	380.977	537.222	0.259	0.349	7.407	9.773	2.615
2022-10-07 06:00	9140425	8.149	-111.325	292.536	9.717	380.568	537.458	0.259	0.349	7.388	9.717	2.713
2022-10-07 06:15	9141325	8.131	-110.354	294.089	9.708	380.363	537.302	0.259	0.349	7.299	9.708	2.395
2022-10-07 06:30	9142225	8.123	-109.875	295.736	9.677	380.149	537.442	0.259	0.349	7.308	9.677	2.275
2022-10-07 06:45	9143125	8.124	-109.89	296.764	9.61	379.39	537.348	0.259	0.349	7.309	9.61	3.415
2022-10-07 07:00	9144025	8.128	-110.095	296.621	9.576	379.065	537.373	0.259	0.349	7.358	9.576	3.273
2022-10-07 07:15	9144925	8.131	-110.297	296.919	9.567	379.075	537.523	0.259	0.349	7.347	9.567	3.284
2022-10-07 07:30	9145825	8.133	-110.369	296.439	9.552	378.955	537.568	0.259	0.349	7.340	9.552	2.814
2022-10-07 07:45	9146725	8.131	-110.247	296.206	9.553	378.894	537.467	0.259	0.349	7.355	9.553	2.211
2022-10-07 08:00	9147625	8.121	-109.725	294.935	9.549	378.645	537.18	0.259	0.349	7.333	9.549	2.513
2022-10-07 08:15	9148525	8.108	-109.015	297.429	9.55	379.051	537.74	0.259	0.350	7.178	9.55	2.389
2022-10-07 08:30	9149425	8.106	-108.874	299.312	9.546	379.038	537.777	0.259	0.350	6.978	9.546	2.21
2022-10-07 08:45	9150325	8.099	-108.514	300.707	9.541	379.026	537.822	0.259	0.350	6.978	9.541	2.318
2022-10-07 09:00	9151225	8.108	-108.995	300.719	9.531	378.807	537.669	0.259	0.349	6.971	9.531	2.748
2022-10-07 09:15	9152125	8.124	-109.854	300.731	9.53	378.75	537.603	0.259	0.349	7.129	9.53	2.879
2022-10-07 09:30	9153025	8.127	-110.068	299.422	9.535	378.777	537.559	0.259	0.349	7.267	9.535	2.226
2022-10-07 09:45	9153925	8.112	-109.22	299.31	9.538	378.816	537.582	0.259	0.349	7.228	9.538	2.081
2022-10-07 10:00	9154825	8.100	-108.566	298.74	9.541	379.102	537.939	0.260	0.350	7.186	9.541	2.205
2022-10-07 10:15	9155725	8.090	-108.044	300.895	9.549	379.144	537.88	0.259	0.350	6.925	9.549	1.965
2022-10-07 10:30	9156625	8.086	-107.801	301.942	9.556	379.352	538.07	0.260	0.350	6.793	9.556	2.081
2022-10-07 10:45	9157525	8.059	-106.32	302.958	9.562	379.655	538.412	0.260	0.350	6.682	9.562	1.835

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-07 11:00	9158425	8.048	-105.753	303.473	9.561	379.382	538.037	0.260	0.350	***6.483***	9.561	2.159
2022-10-07 11:15	9159325	8.058	-106.263	303.349	9.569	379.465	538.044	0.260	0.350	6.647	9.569	1.786
2022-10-07 11:30	9160225	8.070	-106.959	303.735	9.564	379.44	538.078	0.260	0.350	6.522	9.564	1.868
2022-10-07 11:45	9161125	8.086	-107.803	301.966	9.555	379.36	538.093	0.260	0.350	6.639	9.555	1.918
2022-10-07 12:00	9162025	8.104	-108.807	298.995	9.538	378.961	537.777	0.259	0.350	6.800	9.538	1.872
2022-10-07 12:15	9162925	8.082	-107.613	300.583	9.554	379.303	538.035	0.260	0.350	6.820	9.554	1.954
2022-10-07 12:30	9163825	8.081	-107.524	302.13	9.569	379.216	537.685	0.259	0.349	6.623	9.569	2.046
2022-10-07 12:45	9164725	8.075	-107.224	303.175	9.596	379.568	537.791	0.259	0.350	6.681	9.596	2.53
2022-10-07 13:00	9165625	8.078	-107.379	303.554	9.628	379.72	537.553	0.259	0.349	6.756	9.628	2.088
2022-10-07 13:15	9166525	8.093	-108.256	303.311	9.684	380.455	537.775	0.260	0.350	6.831	9.684	2.012
2022-10-07 13:30	9167425	8.079	-107.505	303.287	9.755	381.286	537.919	0.260	0.350	6.563	9.755	1.744
2022-10-07 13:45	9168325	8.068	-106.936	303.373	9.838	382.064	537.818	0.260	0.350	6.549	9.838	1.922
2022-10-07 14:00	9169225	8.085	-107.88	300.807	9.9	382.373	537.353	0.259	0.349	6.642	9.9	3
2022-10-07 14:15	9170125	8.118	-109.73	300.29	9.966	382.766	536.954	0.259	0.349	7.631	9.966	2.099
2022-10-07 14:30	9171025	8.122	-109.963	298.564	10.025	383.455	537.072	0.259	0.349	7.328	10.025	2.06
2022-10-07 14:45	9171925	8.112	-109.415	299.103	10.064	383.685	536.829	0.259	0.349	7.059	10.064	1.926
2022-10-07 15:00	9172825	8.129	-110.397	297.765	10.125	384.758	537.458	0.260	0.349	6.879	10.125	2.012
2022-10-07 15:15	9173725	8.140	-111.012	300.235	10.203	385.712	537.668	0.260	0.349	6.726	10.203	1.983
2022-10-07 15:30	9174625	8.111	-109.451	299.727	10.281	386.352	537.448	0.260	0.349	7.603	10.281	2.489
2022-10-07 15:45	9175525	8.120	-109.963	296.056	10.328	386.964	537.63	0.260	0.349	7.002	10.328	2.684
2022-10-07 16:00	9176425	8.143	-111.234	293.886	10.355	386.894	537.139	0.260	0.349	7.063	10.355	1.727
2022-10-07 16:15	9177325	8.159	-112.102	295.774	10.378	386.484	536.25	0.259	0.349	7.021	10.378	3.441
2022-10-07 16:30	9178225	8.157	-112.011	295.865	10.416	387.402	536.98	0.260	0.349	7.126	10.416	2.388
2022-10-07 16:45	9179125	8.145	-111.377	297.364	10.435	387.604	536.988	0.260	0.349	6.934	10.435	2.105
2022-10-07 17:00	9180025	8.166	-112.555	295.874	10.461	388.005	537.182	0.260	0.349	7.054	10.461	3.031
2022-10-07 17:15	9180925	8.174	-112.963	297.331	10.49	388.6	537.587	0.260	0.349	7.263	10.49	2.516
2022-10-07 17:30	9181825	8.169	-112.717	296.559	10.512	388.626	537.31	0.260	0.349	7.620	10.512	2.106
2022-10-07 17:45	9182725	8.170	-112.786	295.693	10.513	388.609	537.272	0.260	0.349	7.781	10.513	2.528
2022-10-07 18:00	9183625	8.170	-112.793	293.969	10.494	387.983	536.685	0.259	0.349	7.944	10.494	1.987
2022-10-07 18:15	9184525	8.195	-114.138	295.629	10.456	387.246	536.19	0.259	0.349	8.120	10.456	2.279
2022-10-07 18:30	9185425	8.199	-114.353	295.531	10.448	387.238	536.298	0.259	0.349	8.282	10.448	2.211
2022-10-07 18:45	9186325	8.204	-114.613	297.693	10.436	387.348	536.618	0.259	0.349	8.125	10.436	2.663
2022-10-07 19:00	9187225	8.174	-112.972	298.9	10.427	387.7	537.235	0.260	0.349	7.993	10.427	2.12
2022-10-07 19:15	9188125	8.157	-112.028	300.445	10.409	387.599	537.352	0.260	0.349	7.814	10.409	2.481
2022-10-07 19:30	9189025	8.144	-111.289	300.733	10.394	387.577	537.53	0.260	0.349	7.623	10.394	2.262
2022-10-07 19:45	9189925	8.130	-110.559	300.869	10.398	387.33	537.134	0.260	0.349	8.430	10.398	3.442
2022-10-07 20:00	9190825	8.128	-110.443	297.825	10.399	387.706	537.64	0.260	0.349	7.496	10.399	2.367
2022-10-07 20:15	9191725	8.117	-109.844	299.293	10.388	387.384	537.349	0.260	0.349	7.220	10.388	2.488
2022-10-07 20:30	9192625	8.117	-109.825	299.231	10.36	387.157	537.436	0.260	0.349	7.187	10.36	2.638
2022-10-07 20:45	9193525	8.119	-109.899	300.733	10.322	386.864	537.577	0.260	0.349	7.193	10.322	2.529
2022-10-07 21:00	9194425	8.129	-110.452	299.904	10.3	386.878	537.901	0.260	0.350	7.139	10.3	2.753
2022-10-07 21:15	9195325	8.115	-109.646	301.048	10.279	386.783	538.076	0.260	0.350	7.175	10.279	2.643
2022-10-07 21:30	9196225	8.117	-109.789	300.762	10.257	386.576	538.096	0.260	0.350	7.083	10.257	2.718
2022-10-07 21:45	9197125	8.112	-109.513	300.807	10.243	386.29	537.905	0.260	0.350	7.072	10.243	3.034
2022-10-07 22:00	9198025	8.095	-108.552	299.169	10.222	386.396	538.345	0.260	0.350	6.957	10.222	2.364
2022-10-07 22:15	9198925	8.101	-108.852	299.648	10.176	385.422	537.649	0.260	0.349	6.927	10.176	2.786
2022-10-07 22:30	9199825	8.157	-111.909	299.198	10.11	384.375	537.142	0.259	0.349	7.173	10.11	3.128
2022-10-07 22:45	9200725	8.163	-112.207	298.38	10.096	384.339	537.281	0.260	0.349	7.679	10.096	3.156

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-07 23:00	9201625	8.183	-113.299	297.276	10.08	384.063	537.123	0.259	0.349	7.709	10.08	3.762
2022-10-07 23:15	9202525	8.174	-112.805	298.297	10.043	384.145	537.774	0.260	0.350	7.804	10.043	3.51
2022-10-07 23:30	9203425	8.167	-112.4	297.188	10.034	383.888	537.543	0.260	0.349	7.699	10.034	2.711
2022-10-07 23:45	9204325	8.157	-111.856	297.426	10.021	383.873	537.71	0.260	0.350	7.527	10.021	2.412
2022-10-08 00:00	9205225	8.133	-110.555	297.453	10	383.812	537.925	0.260	0.350	7.316	10	4.261
2022-10-08 00:15	9206125	8.117	-109.668	298.65	9.989	383.712	537.951	0.260	0.350	7.102	9.989	3.89
2022-10-08 00:30	9207025	8.119	-109.782	299.799	9.934	383.208	538.032	0.260	0.350	6.868	9.934	3.999
2022-10-08 00:45	9207925	8.137	-110.757	298.459	9.914	382.821	537.775	0.260	0.350	7.047	9.914	4.634
2022-10-08 01:00	9208825	8.119	-109.72	299.873	9.886	382.675	537.971	0.260	0.350	7.186	9.886	2.757
2022-10-08 01:15	9209725	8.108	-109.103	302.521	9.862	382.486	538.063	0.260	0.350	6.899	9.862	2.17
2022-10-08 01:30	9210625	8.092	-108.232	304.295	9.841	382.42	538.262	0.260	0.350	6.635	9.841	2.029
2022-10-08 01:45	9211525	8.080	-107.565	303.826	9.812	382.257	538.466	0.260	0.350	***6.445***	9.812	1.948
2022-10-08 02:00	9212425	8.094	-108.333	301.923	9.744	381.378	538.2	0.260	0.350	***6.446***	9.744	5.898
2022-10-08 02:15	9213325	8.132	-110.412	298.928	9.72	381.036	538.071	0.260	0.350	6.838	9.72	4.839
2022-10-08 02:30	9214225	8.113	-109.32	303.039	9.677	380.665	538.177	0.260	0.350	6.878	9.677	4.551
2022-10-08 02:45	9215125	8.113	-109.324	300.926	9.624	380.162	538.237	0.260	0.350	7.044	9.624	4.473
2022-10-08 03:00	9216025	8.130	-110.202	301.909	9.556	379.42	538.172	0.260	0.350	7.101	9.556	3.677
2022-10-08 03:15	9216925	8.140	-110.745	299.253	9.54	379.125	537.988	0.260	0.350	7.263	9.54	2.517
2022-10-08 03:30	9217825	8.125	-109.909	299.441	9.497	378.773	538.109	0.260	0.350	7.185	9.497	2.714
2022-10-08 03:45	9218725	8.122	-109.723	298.032	9.475	378.432	537.943	0.259	0.350	7.228	9.475	2.619
2022-10-08 04:00	9219625	8.126	-109.921	297.627	9.416	377.951	538.128	0.260	0.350	7.081	9.416	2.562
2022-10-08 04:15	9220525	8.112	-109.162	298.707	9.409	377.895	538.148	0.260	0.350	7.030	9.409	2.446
2022-10-08 04:30	9221425	8.111	-109.11	299.372	9.377	377.32	537.795	0.259	0.350	7.209	9.377	2.396
2022-10-08 04:45	9222325	8.115	-109.322	300.614	9.307	376.662	537.889	0.259	0.350	7.206	9.307	2.328
2022-10-08 05:00	9223225	8.114	-109.224	299.448	9.273	376.471	538.114	0.259	0.350	7.189	9.273	2.989
2022-10-08 05:15	9224125	8.121	-109.589	300.094	9.266	376.398	538.11	0.259	0.350	7.119	9.266	3.178
2022-10-08 05:30	9225025	8.120	-109.527	300.173	9.243	376.122	538.06	0.259	0.350	7.241	9.243	38.943
2022-10-08 05:45	9225925	8.117	-109.398	299.663	9.226	376.024	538.17	0.259	0.350	7.186	9.226	3.008
2022-10-08 06:00	9226825	8.115	-109.272	298.654	9.201	375.895	538.354	0.260	0.350	7.123	9.201	2.406
2022-10-08 06:15	9227725	8.102	-108.535	300.516	9.198	375.82	538.281	0.259	0.350	6.992	9.198	2.29
2022-10-08 06:30	9228625	8.090	-107.877	302.54	9.175	375.621	538.344	0.260	0.350	6.985	9.175	2.229
2022-10-08 06:45	9229525	8.092	-108.001	302.929	9.165	375.252	537.963	0.259	0.350	7.047	9.165	2.021
2022-10-08 07:00	9230425	8.081	-107.393	303.783	9.144	375.354	538.416	0.260	0.350	6.811	9.144	2.414
2022-10-08 07:15	9231325	8.096	-108.178	304.214	9.121	375.079	538.358	0.259	0.350	6.668	9.121	2.961
2022-10-08 07:30	9232225	8.087	-107.663	303.647	9.09	374.672	538.228	0.259	0.350	6.799	9.09	3.938
2022-10-08 07:45	9233125	8.095	-108.104	301.739	9.045	374.215	538.236	0.259	0.350	6.754	9.045	3.155
2022-10-08 08:00	9234025	8.128	-109.909	300.254	8.991	373.691	538.285	0.259	0.350	6.923	8.991	2.708
2022-10-08 08:15	9234925	8.119	-109.377	301.398	8.97	373.317	538.049	0.259	0.350	6.962	8.97	2.586
2022-10-08 08:30	9235825	8.111	-108.945	301.437	8.958	373.18	538.031	0.259	0.350	7.136	8.958	2.471
2022-10-08 08:45	9236725	8.110	-108.871	302.402	8.928	372.863	538.022	0.259	0.350	7.119	8.928	2.234
2022-10-08 09:00	9237625	8.107	-108.728	302.56	8.899	372.624	538.106	0.259	0.350	7.154	8.899	2.942
2022-10-08 09:15	9238525	8.103	-108.495	303.563	8.893	372.618	538.182	0.259	0.350	7.055	8.893	2.824
2022-10-08 09:30	9239425	8.102	-108.421	303.375	8.883	372.416	538.043	0.259	0.350	7.125	8.883	2.809
2022-10-08 09:45	9240326	8.115	-109.15	303.318	8.871	372.365	538.156	0.259	0.350	7.191	8.871	2.559
2022-10-08 10:00	9241226	8.129	-109.854	300.397	8.842	371.944	537.971	0.259	0.350	7.189	8.842	3.552
2022-10-08 10:15	9242126	8.125	-109.649	300.883	8.835	371.747	537.789	0.259	0.350	7.204	8.835	3.137
2022-10-08 10:30	9243026	8.124	-109.63	300.698	8.844	372.012	538.047	0.259	0.350	7.493	8.844	2.688
2022-10-08 10:45	9243926	8.121	-109.472	301.873	8.853	372.025	537.932	0.259	0.350	7.348	8.853	3.807

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-08 11:00	9244826	8.113	-109.007	302.157	8.866	372.097	537.838	0.259	0.350	7.306	8.866	2.538
2022-10-08 11:15	9245726	8.114	-109.105	302.633	8.884	372.134	537.63	0.259	0.349	7.452	8.884	2.527
2022-10-08 11:30	9246626	8.112	-108.957	302.722	8.902	372.345	537.66	0.259	0.349	7.404	8.902	2.288
2022-10-08 11:45	9247526	8.108	-108.759	302.366	8.924	372.59	537.692	0.259	0.350	7.386	8.924	2.266
2022-10-08 12:00	9248426	8.106	-108.681	300.774	8.947	373.067	538.042	0.259	0.350	7.411	8.947	3.873
2022-10-08 12:15	9249326	8.119	-109.384	300.945	8.978	373.431	538.099	0.259	0.350	7.474	8.978	3.028
2022-10-08 12:30	9250226	8.118	-109.375	301.589	9.022	373.903	538.13	0.259	0.350	7.148	9.022	2.384
2022-10-08 12:45	9251126	8.166	-112.035	299.994	9.143	374.9	537.778	0.259	0.350	7.696	9.143	3.731
2022-10-08 13:00	9252026	8.213	-114.594	294.704	9.224	375.385	537.277	0.259	0.349	8.144	9.224	4.456
2022-10-08 13:15	9252926	8.228	-115.457	291.883	9.267	375.814	537.263	0.259	0.349	8.205	9.267	3.653
2022-10-08 13:30	9253826	8.226	-115.368	291.502	9.322	376.266	537.094	0.259	0.349	8.387	9.322	3.909
2022-10-08 13:45	9254726	8.242	-116.253	289.79	9.383	376.762	536.921	0.259	0.349	8.593	9.383	4.792
2022-10-08 14:00	9255626	8.252	-116.842	287.16	9.482	377.535	536.568	0.259	0.349	8.994	9.482	5.05
2022-10-08 14:15	9256526	8.283	-118.568	284.49	9.562	378.406	536.65	0.259	0.349	9.060	9.562	4.105
2022-10-08 14:30	9257426	8.247	-116.63	287.587	9.61	379.094	536.922	0.259	0.349	8.900	9.61	4.055
2022-10-08 14:45	9258326	8.245	-116.572	288.078	9.721	380.124	536.773	0.259	0.349	9.031	9.721	4.222
2022-10-08 15:00	9259226	8.288	-118.99	284.418	9.864	381.31	536.38	0.259	0.349	9.378	9.864	4.236
2022-10-08 15:15	9260126	8.267	-117.948	284.561	10.136	384.035	536.283	0.259	0.349	9.083	10.136	3.383
2022-10-08 15:30	9261026	8.228	-116.065	286.233	10.718	390.57	537.081	0.260	0.349	8.873	10.718	3.525
2022-10-08 15:45	9261926	8.233	-116.484	279.443	11.122	395.325	537.909	0.260	0.350	8.887	11.122	3.473
2022-10-08 16:00	9262826	8.230	-116.379	266.668	11.291	397.167	538.057	0.261	0.350	9.022	11.291	3.56
2022-10-08 16:15	9263726	8.261	-118.122	264.055	11.352	397.74	537.984	0.260	0.350	9.158	11.352	3.558
2022-10-08 16:30	9264626	8.260	-118.053	269.007	11.363	397.827	537.942	0.260	0.350	9.176	11.363	3.35
2022-10-08 16:45	9265526	8.243	-117.123	270.066	11.385	398.111	538.022	0.261	0.350	9.097	11.385	3.279
2022-10-08 17:00	9266426	8.214	-115.573	274.004	11.437	398.655	538.032	0.261	0.350	8.935	11.437	3.081
2022-10-08 17:15	9267326	8.214	-115.6	274.634	11.468	398.745	537.721	0.260	0.350	9.001	11.468	2.861
2022-10-08 17:30	9268226	8.225	-116.169	276.369	11.477	398.906	537.822	0.260	0.350	9.025	11.477	2.813
2022-10-08 17:45	9269126	8.227	-116.315	274.805	11.455	398.799	537.983	0.261	0.350	9.220	11.455	2.743
2022-10-08 18:00	9270026	8.197	-114.603	276.398	11.42	398.918	538.62	0.261	0.350	8.732	11.42	4.609
2022-10-08 18:15	9270926	8.207	-115.19	277.268	11.406	398.757	538.609	0.261	0.350	8.444	11.406	4.363
2022-10-08 18:30	9271826	8.213	-115.488	278.193	11.358	398.235	538.559	0.261	0.350	8.340	11.358	4.426
2022-10-08 18:45	9272726	8.203	-114.899	279.95	11.292	397.601	538.619	0.261	0.350	8.308	11.292	4.685
2022-10-08 19:00	9273626	8.179	-113.587	280.78	11.245	397.382	538.986	0.261	0.350	8.243	11.245	2.577
2022-10-08 19:15	9274526	8.175	-113.32	284.754	11.196	397.09	539.277	0.261	0.351	8.094	11.196	2.418
2022-10-08 19:30	9275426	8.155	-112.195	284.676	11.14	396.642	539.446	0.261	0.351	8.039	11.14	2.619
2022-10-08 19:45	9276326	8.175	-113.287	285.413	11.077	395.885	539.294	0.261	0.351	8.021	11.077	2.552
2022-10-08 20:00	9277226	8.184	-113.745	282.959	11.038	395.003	538.64	0.261	0.350	8.196	11.038	2.518
2022-10-08 20:15	9278126	8.188	-113.976	286.168	11.008	394.115	537.862	0.260	0.350	8.203	11.008	2.172
2022-10-08 20:30	9279026	8.178	-113.399	288.784	10.987	394.111	538.15	0.260	0.350	8.245	10.987	2.517
2022-10-08 20:45	9279926	8.187	-113.921	290.097	10.972	394.185	538.456	0.261	0.350	8.299	10.972	2.327
2022-10-08 21:00	9280826	8.191	-114.1	290.007	10.947	394.019	538.576	0.261	0.350	8.167	10.947	2.315
2022-10-08 21:15	9281726	8.211	-115.175	289.652	10.944	394.127	538.775	0.261	0.350	8.141	10.944	2.158
2022-10-08 21:30	9282626	8.212	-115.232	290.882	10.899	393.621	538.71	0.261	0.350	8.028	10.899	2.088
2022-10-08 21:45	9283526	8.205	-114.849	290.884	10.856	393.201	538.74	0.261	0.350	7.933	10.856	2.049
2022-10-08 22:00	9284426	8.204	-114.739	290.143	10.771	392.172	538.532	0.260	0.350	8.107	10.771	2.029
2022-10-08 22:15	9285326	8.202	-114.62	289.799	10.726	391.538	538.289	0.260	0.350	8.140	10.726	2.536
2022-10-08 22:30	9286226	8.186	-113.711	292.012	10.689	391.12	538.249	0.260	0.350	8.082	10.689	2.201
2022-10-08 22:45	9287126	8.188	-113.795	293.543	10.64	390.433	537.988	0.260	0.350	8.000	10.64	2.15

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-08 23:00	9288026	8.171	-112.848	294.05	10.588	390.402	538.69	0.260	0.350	7.961	10.588	2.544
2022-10-08 23:15	9288926	8.167	-112.624	294.854	10.546	390.08	538.84	0.261	0.350	7.874	10.546	2.268
2022-10-08 23:30	9289826	8.163	-112.419	294.911	10.517	389.827	538.902	0.261	0.350	7.763	10.517	2.258
2022-10-08 23:45	9290726	8.179	-113.251	293.612	10.459	389.261	538.946	0.261	0.350	7.721	10.459	2.199
2022-10-09 00:00	9291626	8.154	-111.887	291.466	10.412	388.941	539.169	0.261	0.350	7.664	10.412	2.196
2022-10-09 00:15	9292526	8.155	-111.892	293.29	10.316	387.854	539.028	0.261	0.350	7.578	10.316	2.563
2022-10-09 00:30	9293426	8.147	-111.43	294.389	10.31	387.686	538.892	0.260	0.350	7.460	10.31	2.233
2022-10-09 00:45	9294326	8.112	-109.518	296.144	10.254	387.428	539.326	0.261	0.351	7.297	10.254	2.114
2022-10-09 01:00	9295226	8.088	-108.163	297.019	10.242	387.504	539.607	0.261	0.351	6.958	10.242	2.293
2022-10-09 01:15	9296126	8.094	-108.497	298.046	10.184	386.972	539.702	0.261	0.351	6.781	10.184	2.603
2022-10-09 01:30	9297026	8.091	-108.302	297.686	10.149	386.68	539.792	0.261	0.351	6.653	10.149	2.408
2022-10-09 01:45	9297926	8.092	-108.33	296.072	10.101	386.212	539.829	0.261	0.351	6.588	10.101	2.55
2022-10-09 02:00	9298826	8.094	-108.421	294.267	10.037	385.589	539.878	0.261	0.351	6.624	10.037	2.157
2022-10-09 02:15	9299726	8.110	-109.293	295.703	9.977	384.429	539.127	0.260	0.350	6.658	9.977	2.458
2022-10-09 02:30	9300626	8.112	-109.351	296.032	9.928	383.878	539.057	0.260	0.350	6.952	9.928	2.521
2022-10-09 02:45	9301526	8.120	-109.806	296.125	9.89	383.558	539.153	0.260	0.350	7.007	9.89	2.385
2022-10-09 03:00	9302426	8.117	-109.637	295.412	9.836	383.299	539.579	0.261	0.351	7.010	9.836	2.861
2022-10-09 03:15	9303326	8.137	-110.65	295.798	9.685	381.737	539.574	0.260	0.351	7.198	9.685	2.433
2022-10-09 03:30	9304226	8.135	-110.524	292.949	9.706	381.742	539.274	0.260	0.351	7.465	9.706	2.783
2022-10-09 03:45	9305126	8.116	-109.477	293.264	9.684	381.665	539.477	0.260	0.351	7.265	9.684	2.551
2022-10-09 04:00	9306026	8.098	-108.514	291.845	9.638	381.255	539.57	0.260	0.351	7.109	9.638	2.395
2022-10-09 04:15	9306926	8.111	-109.179	293.395	9.585	380.237	538.911	0.260	0.350	7.009	9.585	2.404
2022-10-09 04:30	9307826	8.120	-109.665	293.769	9.518	379.504	538.844	0.260	0.350	6.783	9.518	2.258
2022-10-09 04:45	9308726	8.126	-109.98	293.247	9.488	379.529	539.323	0.260	0.351	6.986	9.488	2.171
2022-10-09 05:00	9309626	8.109	-109.005	291.967	9.467	379.391	539.428	0.260	0.351	7.024	9.467	3.392
2022-10-09 05:15	9310526	8.118	-109.501	292.391	9.427	379.21	539.754	0.260	0.351	6.965	9.427	2.614
2022-10-09 05:30	9311426	8.102	-108.633	292.715	9.401	378.951	539.768	0.260	0.351	6.802	9.401	16.074
2022-10-09 05:45	9312326	8.085	-107.675	293.354	9.37	378.67	539.819	0.260	0.351	6.658	9.37	2.731
2022-10-09 06:00	9313226	8.102	-108.597	291.261	9.292	377.936	539.921	0.260	0.351	6.668	9.292	2.144
2022-10-09 06:15	9314126	8.116	-109.31	291.592	9.244	377.165	539.524	0.260	0.351	6.677	9.244	2.156
2022-10-09 06:30	9315026	8.106	-108.74	290.271	9.201	376.672	539.466	0.260	0.351	6.955	9.201	2.411
2022-10-09 06:45	9315926	8.102	-108.528	289.082	9.141	375.905	539.249	0.260	0.351	6.986	9.141	2.178
2022-10-09 07:00	9316826	8.107	-108.764	287.286	9.074	375.363	539.462	0.260	0.351	7.100	9.074	2.723
2022-10-09 07:15	9317726	8.115	-109.196	287.868	9.051	375.081	539.402	0.260	0.351	7.025	9.051	2.933
2022-10-09 07:30	9318626	8.113	-109.076	285.637	8.984	374.399	539.412	0.260	0.351	7.148	8.984	2.979
2022-10-09 07:45	9319526	8.101	-108.404	284.912	8.934	373.818	539.304	0.260	0.351	7.250	8.934	2.714
2022-10-09 08:00	9320426	8.116	-109.198	283.705	8.88	373.397	539.509	0.260	0.351	7.187	8.88	2.861
2022-10-09 08:15	9321326	8.103	-108.48	284.399	8.882	373.408	539.485	0.260	0.351	7.117	8.882	2.624
2022-10-09 08:30	9322226	8.099	-108.23	285.119	8.857	374.028	540.764	0.261	0.351	7.211	8.857	2.623
2022-10-09 08:45	9323126	8.099	-108.23	285.851	8.832	372.808	539.364	0.260	0.351	7.291	8.832	2.315
2022-10-09 09:00	9324026	8.101	-108.354	286.02	8.794	372.346	539.267	0.260	0.351	7.200	8.794	2.411
2022-10-09 09:15	9324926	8.109	-108.783	287.246	8.784	372.045	538.978	0.260	0.350	7.639	8.784	2.417
2022-10-09 09:30	9325826	8.116	-109.169	287.37	8.796	372.188	539.01	0.260	0.350	7.285	8.796	2.148
2022-10-09 09:45	9326726	8.097	-108.111	288.314	8.809	372.427	539.158	0.260	0.350	7.122	8.809	2.111
2022-10-09 10:00	9327626	8.095	-108.027	287.596	8.809	372.667	539.503	0.260	0.351	7.089	8.809	2.046
2022-10-09 10:15	9328526	8.092	-107.839	289.914	8.807	372.525	539.331	0.260	0.351	6.918	8.807	2.168
2022-10-09 10:30	9329426	8.104	-108.521	290.856	8.79	372.243	539.183	0.260	0.350	7.242	8.79	2.388
2022-10-09 10:45	9330326	8.107	-108.669	290.133	8.786	372.348	539.396	0.260	0.351	7.328	8.786	2.123

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-09 11:00	9331226	8.102	-108.366	290.641	8.777	372.081	539.137	0.260	0.350	7.303	8.777	2.054
2022-10-09 11:15	9332126	8.115	-109.115	291.373	8.779	372.061	539.08	0.260	0.350	7.268	8.779	2.468
2022-10-09 11:30	9333026	8.122	-109.484	290.109	8.782	372.101	539.091	0.260	0.350	7.350	8.782	2.301
2022-10-09 11:45	9333926	8.132	-110.033	289.406	8.803	372.216	538.938	0.260	0.350	7.407	8.803	2.137
2022-10-09 12:00	9334826	8.108	-108.733	288.672	8.834	372.558	538.977	0.260	0.350	7.381	8.834	11.236
2022-10-09 12:15	9335726	8.116	-109.191	289.89	8.865	372.901	539.016	0.260	0.350	7.321	8.865	2.095
2022-10-09 12:30	9336626	8.116	-109.169	291.54	8.893	373.177	538.992	0.260	0.350	7.230	8.893	2.043
2022-10-09 12:45	9337526	8.108	-108.79	293.194	8.931	373.611	539.062	0.260	0.350	7.184	8.931	1.927
2022-10-09 13:00	9338426	8.117	-109.291	293.9	8.978	373.926	538.815	0.260	0.350	7.174	8.978	2.58
2022-10-09 13:15	9339326	8.214	-114.613	290.317	9.069	374.395	538.143	0.259	0.350	8.155	9.069	2.956
2022-10-09 13:30	9340226	8.210	-114.431	288.336	9.125	374.977	538.148	0.259	0.350	8.366	9.125	3.519
2022-10-09 13:45	9341126	8.213	-114.591	288.557	9.161	375.29	538.075	0.259	0.350	8.411	9.161	3.713
2022-10-09 14:00	9342027	8.212	-114.536	286.984	9.17	375.307	537.968	0.259	0.350	8.484	9.17	3.673
2022-10-09 14:15	9342927	8.217	-114.806	288.44	9.204	375.796	538.169	0.259	0.350	8.546	9.204	4.329
2022-10-09 14:30	9343827	8.214	-114.66	290.772	9.239	376.033	537.985	0.259	0.350	8.563	9.239	3.386
2022-10-09 14:45	9344727	8.216	-114.791	291.485	9.237	375.933	537.872	0.259	0.350	8.560	9.237	4.036
2022-10-09 15:00	9345627	8.221	-115.077	291.056	9.249	376.076	537.901	0.259	0.350	8.629	9.249	4.398
2022-10-09 15:15	9346527	8.233	-115.702	290.755	9.262	376.124	537.773	0.259	0.350	8.624	9.262	4.278
2022-10-09 15:30	9347427	8.232	-115.683	291.03	9.276	376.383	537.937	0.259	0.350	8.745	9.276	4.917
2022-10-09 15:45	9348327	8.241	-116.169	289.027	9.297	376.477	537.762	0.259	0.350	8.767	9.297	4.607
2022-10-09 16:00	9349227	8.233	-115.759	288.159	9.344	377.098	537.969	0.259	0.350	8.758	9.344	3.627
2022-10-09 16:15	9350127	8.235	-115.871	289.423	9.372	377.414	537.999	0.259	0.350	8.812	9.372	4.072
2022-10-09 16:30	9351027	8.239	-116.131	285.844	9.411	377.914	538.144	0.260	0.350	8.875	9.411	4.336
2022-10-09 16:45	9351927	8.246	-116.506	287.768	9.463	378.531	538.265	0.260	0.350	8.859	9.463	4.034
2022-10-09 17:00	9352827	8.242	-116.324	287.644	9.496	378.813	538.189	0.260	0.350	8.873	9.496	4.295
2022-10-09 17:15	9353727	8.247	-116.57	288.715	9.517	379.035	538.194	0.260	0.350	8.912	9.517	3.902
2022-10-09 17:30	9354627	8.235	-115.957	289.847	9.538	379.27	538.218	0.260	0.350	8.914	9.538	3.573
2022-10-09 17:45	9355527	8.242	-116.313	289.206	9.549	379.385	538.218	0.260	0.350	8.858	9.549	3.698
2022-10-09 18:00	9356427	8.248	-116.665	287.031	9.545	379.389	538.28	0.260	0.350	8.858	9.545	4.16
2022-10-09 18:15	9357327	8.241	-116.255	290.009	9.48	378.522	538.009	0.260	0.350	8.817	9.48	3.968
2022-10-09 18:30	9358227	8.234	-115.843	291.278	9.457	378.69	538.579	0.260	0.350	8.717	9.457	4.526
2022-10-09 18:45	9359127	8.230	-115.621	292.88	9.473	379.129	538.965	0.260	0.350	8.667	9.473	3.587
2022-10-09 19:00	9360027	8.213	-114.717	294.167	9.488	379.276	538.959	0.260	0.350	8.501	9.488	5.842
2022-10-09 19:15	9360927	8.224	-115.302	294.465	9.499	379.356	538.913	0.260	0.350	8.570	9.499	3.977
2022-10-09 19:30	9361827	8.226	-115.44	292.935	9.522	379.642	538.978	0.260	0.350	8.577	9.522	4.727
2022-10-09 19:45	9362727	8.228	-115.571	291.723	9.525	379.692	539.002	0.260	0.350	8.542	9.525	4.158
2022-10-09 20:00	9363627	8.221	-115.163	290.436	9.528	379.853	539.193	0.260	0.350	8.516	9.528	4.2
2022-10-09 20:15	9364527	8.229	-115.621	291.924	9.529	379.884	539.224	0.260	0.350	8.515	9.529	4.121
2022-10-09 20:30	9365427	8.230	-115.69	291.199	9.53	379.903	539.24	0.260	0.351	8.503	9.53	5.139
2022-10-09 20:45	9366327	8.227	-115.502	292.837	9.528	380.026	539.437	0.260	0.351	8.504	9.528	4.479
2022-10-09 21:00	9367227	8.200	-114.021	293.626	9.53	380.082	539.491	0.260	0.351	8.420	9.53	3.736
2022-10-09 21:15	9368127	8.193	-113.635	296.036	9.531	380.541	540.122	0.261	0.351	8.292	9.531	3.367
2022-10-09 21:30	9369027	8.181	-112.97	297.791	9.529	380.107	539.537	0.260	0.351	8.154	9.529	3.668
2022-10-09 21:45	9369927	8.174	-112.629	297.908	9.526	380.081	539.548	0.260	0.351	8.132	9.526	3.616
2022-10-09 22:00	9370827	8.169	-112.314	296.747	9.524	380.218	539.768	0.260	0.351	8.087	9.524	3.286
2022-10-09 22:15	9371727	8.168	-112.288	295.371	9.521	380.132	539.694	0.260	0.351	8.020	9.521	3.115
2022-10-09 22:30	9372627	8.171	-112.464	297.336	9.52	380.048	539.591	0.260	0.351	7.966	9.52	3.414
2022-10-09 22:45	9373527	8.176	-112.708	298.79	9.512	379.949	539.566	0.260	0.351	7.967	9.512	3.187

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-09 23:00	9374427	8.170	-112.369	299.291	9.509	379.903	539.539	0.260	0.351	8.002	9.509	3.887
2022-10-09 23:15	9375327	8.171	-112.426	300.016	9.507	379.851	539.502	0.260	0.351	7.920	9.507	3.409
2022-10-09 23:30	9376227	8.160	-111.835	300.457	9.5	379.918	539.7	0.260	0.351	7.865	9.5	3.575
2022-10-09 23:45	9377127	8.158	-111.744	300.199	9.495	379.854	539.671	0.260	0.351	7.841	9.495	2.895
2022-10-10 00:00	9378027	8.154	-111.48	298.435	9.492	379.943	539.845	0.260	0.351	7.769	9.492	2.607
2022-10-10 00:15	9378927	8.152	-111.368	300.066	9.491	380.08	540.058	0.261	0.351	7.854	9.491	3.096
2022-10-10 00:30	9379827	8.135	-110.447	302.426	9.491	380.106	540.089	0.261	0.351	7.628	9.491	2.402
2022-10-10 00:45	9380727	8.128	-110.099	303.506	9.494	380.335	540.377	0.261	0.351	7.524	9.494	2.168
2022-10-10 01:00	9381627	8.112	-109.196	303.318	9.489	380.246	540.316	0.261	0.351	7.370	9.489	2.211
2022-10-10 01:15	9382527	8.107	-108.929	304.054	9.489	380.246	540.326	0.261	0.351	7.217	9.489	2.441
2022-10-10 01:30	9383427	8.099	-108.466	304.212	9.481	380.2	540.375	0.261	0.351	7.075	9.481	2.01
2022-10-10 01:45	9384327	8.084	-107.646	304.825	9.471	380.193	540.516	0.261	0.351	6.924	9.471	2.238
2022-10-10 02:00	9385227	8.077	-107.265	303.957	9.464	380.26	540.708	0.261	0.351	6.813	9.464	2.099
2022-10-10 02:15	9386127	8.072	-106.981	304.467	9.455	380.148	540.677	0.261	0.351	6.813	9.455	2.069
2022-10-10 02:30	9387027	8.071	-106.926	305.535	9.446	380.017	540.622	0.261	0.351	6.663	9.446	1.963
2022-10-10 02:45	9387927	8.064	-106.561	306.417	9.429	379.989	540.833	0.261	0.352	6.607	9.429	2.068
2022-10-10 03:00	9388827	8.062	-106.442	306.431	9.411	379.759	540.782	0.261	0.352	6.549	9.411	2.401
2022-10-10 03:15	9389727	8.057	-106.161	306.775	9.394	379.62	540.828	0.261	0.352	6.609	9.394	2.703
2022-10-10 03:30	9390627	8.073	-107.017	306.062	9.358	379.104	540.623	0.261	0.351	6.813	9.358	2.701
2022-10-10 03:45	9391527	8.128	-109.994	302.388	9.298	378.338	540.406	0.261	0.351	7.522	9.298	4.26
2022-10-10 04:00	9392427	8.149	-111.158	296.84	9.312	378.409	540.309	0.261	0.351	7.685	9.312	4.147
2022-10-10 04:15	9393327	8.168	-112.214	296.985	9.327	378.316	539.954	0.260	0.351	7.785	9.327	4.753
2022-10-10 04:30	9394227	8.169	-112.233	298.211	9.328	378.273	539.876	0.260	0.351	7.872	9.328	3.902
2022-10-10 04:45	9395127	8.184	-113.053	297.946	9.326	378.18	539.78	0.260	0.351	7.920	9.326	3.746
2022-10-10 05:00	9396027	8.181	-112.903	296.902	9.333	378.12	539.585	0.260	0.351	8.094	9.333	5.306
2022-10-10 05:15	9396927	8.196	-113.74	297.636	9.336	378.298	539.8	0.260	0.351	8.026	9.336	3.885
2022-10-10 05:30	9397827	8.168	-112.181	299.343	9.336	378.319	539.833	0.260	0.351	7.953	9.336	4.227
2022-10-10 05:45	9398727	8.187	-113.235	297.903	9.34	378.306	539.753	0.260	0.351	8.031	9.34	4.083
2022-10-10 06:00	9399627	8.195	-113.657	297.56	9.346	378.36	539.73	0.260	0.351	8.187	9.346	4.606
2022-10-10 06:15	9400527	8.193	-113.573	299.62	9.351	378.387	539.705	0.260	0.351	8.273	9.351	4.949
2022-10-10 06:30	9401427	8.197	-113.811	298.559	9.346	378.3	539.65	0.260	0.351	8.353	9.346	7.559
2022-10-10 06:45	9402327	8.203	-114.141	299.477	9.347	378.312	539.653	0.260	0.351	8.360	9.347	5.246
2022-10-10 07:00	9403227	8.193	-113.587	298.895	9.35	378.382	539.712	0.260	0.351	8.298	9.35	4.82
2022-10-10 07:15	9404127	8.198	-113.869	300.352	9.354	378.462	539.767	0.260	0.351	8.275	9.354	5.319
2022-10-10 07:30	9405027	8.199	-113.878	299.484	9.361	378.532	539.758	0.260	0.351	8.288	9.361	4.419
2022-10-10 07:45	9405927	8.198	-113.871	298.533	9.363	378.551	539.763	0.260	0.351	8.271	9.363	4.193
2022-10-10 08:00	9406827	8.189	-113.382	298.428	9.367	378.662	539.855	0.260	0.351	8.248	9.367	4.402
2022-10-10 08:15	9407727	8.194	-113.642	300.118	9.37	378.662	539.818	0.260	0.351	8.308	9.37	4.114
2022-10-10 08:30	9408627	8.201	-114.028	300.807	9.373	378.699	539.821	0.260	0.351	8.263	9.373	5.18
2022-10-10 08:45	9409527	8.195	-113.714	301.418	9.377	378.79	539.889	0.260	0.351	8.276	9.377	5.152
2022-10-10 09:00	9410427	8.189	-113.351	300.466	9.379	378.763	539.82	0.260	0.351	8.245	9.379	5.07
2022-10-10 09:15	9411327	8.196	-113.764	300.786	9.382	378.767	539.791	0.260	0.351	8.237	9.382	4.414
2022-10-10 09:30	9412227	8.198	-113.852	300.523	9.387	378.814	539.775	0.260	0.351	8.196	9.387	4.05
2022-10-10 09:45	9413127	8.199	-113.9	299.687	9.388	378.774	539.712	0.260	0.351	8.222	9.388	4.797
2022-10-10 10:00	9414027	8.184	-113.096	299.424	9.388	378.946	539.954	0.260	0.351	8.203	9.388	4.614
2022-10-10 10:15	9414927	8.194	-113.621	300.514	9.39	378.9	539.866	0.260	0.351	8.196	9.39	3.92
2022-10-10 10:30	9415827	8.202	-114.071	299.408	9.387	378.887	539.886	0.260	0.351	8.199	9.387	5.421
2022-10-10 10:45	9416727	8.199	-113.912	301.363	9.387	378.953	539.974	0.260	0.351	8.299	9.387	3.849

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-10 11:00	9417627	8.185	-113.158	301.327	9.401	378.947	539.766	0.260	0.351	8.389	9.401	4.492
2022-10-10 11:15	9418527	8.214	-114.763	299.315	9.408	378.906	539.602	0.260	0.351	8.564	9.408	5.272
2022-10-10 11:30	9419427	8.220	-115.082	297.097	9.411	378.911	539.567	0.260	0.351	8.621	9.411	4.869
2022-10-10 11:45	9420327	8.217	-114.937	296.911	9.418	379.007	539.604	0.260	0.351	8.602	9.418	5.231
2022-10-10 12:00	9421227	8.224	-115.306	294.363	9.434	379.227	539.681	0.260	0.351	8.663	9.434	5.57
2022-10-10 12:15	9422127	8.224	-115.33	294.916	9.448	379.286	539.562	0.260	0.351	8.678	9.448	5.222
2022-10-10 12:30	9423027	8.231	-115.683	296.089	9.462	379.559	539.744	0.260	0.351	8.690	9.462	5.128
2022-10-10 12:45	9423927	8.203	-114.155	296.895	9.475	379.783	539.865	0.260	0.351	8.639	9.475	4.087
2022-10-10 13:00	9424827	8.183	-113.06	297.672	9.494	379.956	539.836	0.260	0.351	8.287	9.494	3.923
2022-10-10 13:15	9425727	8.212	-114.686	297.581	9.524	380.028	539.5	0.260	0.351	8.717	9.524	4.61
2022-10-10 13:30	9426627	8.223	-115.263	295.834	9.528	380.062	539.484	0.260	0.351	8.778	9.528	4.902
2022-10-10 13:45	9427527	8.233	-115.802	293.719	9.507	379.809	539.43	0.260	0.351	8.754	9.507	5.484
2022-10-10 14:00	9428427	8.222	-115.223	292.641	9.497	379.872	539.669	0.260	0.351	8.686	9.497	4.508
2022-10-10 14:15	9429327	8.220	-115.135	294.539	9.504	379.894	539.597	0.260	0.351	8.701	9.504	4.77
2022-10-10 14:30	9430227	8.220	-115.094	295.514	9.509	380.011	539.694	0.260	0.351	8.724	9.509	4.371
2022-10-10 14:45	9431127	8.229	-115.607	295.529	9.53	380.1	539.507	0.260	0.351	8.810	9.53	16.011
2022-10-10 15:00	9432027	8.233	-115.831	293.581	9.545	380.183	539.419	0.260	0.351	8.842	9.545	4.581
2022-10-10 15:15	9432927	8.244	-116.453	293.009	9.546	380.187	539.402	0.260	0.351	8.942	9.546	4.578
2022-10-10 15:30	9433827	8.255	-117.052	292.072	9.536	379.954	539.219	0.260	0.350	8.947	9.536	5.784
2022-10-10 15:45	9434727	8.247	-116.577	291.275	9.534	379.865	539.126	0.260	0.350	9.010	9.534	4.192
2022-10-10 16:00	9435627	8.228	-115.583	290.868	9.541	380.232	539.54	0.260	0.351	8.712	9.541	3.696
2022-10-10 16:15	9436527	8.208	-114.467	293.538	9.551	380.495	539.761	0.260	0.351	8.459	9.551	3.089
2022-10-10 16:30	9437427	8.194	-113.69	296.044	9.562	380.572	539.721	0.260	0.351	8.258	9.562	3.453
2022-10-10 16:45	9438327	8.188	-113.404	297.705	9.567	380.553	539.614	0.260	0.351	8.222	9.567	3.404
2022-10-10 17:00	9439227	8.185	-113.206	297.6	9.575	381.154	540.354	0.261	0.351	8.149	9.575	2.677
2022-10-10 17:15	9440127	8.181	-112.998	298.747	9.582	380.927	539.929	0.261	0.351	8.105	9.582	2.528
2022-10-10 17:30	9441027	8.171	-112.469	298.177	9.59	381.073	540.014	0.261	0.351	7.980	9.59	2.188
2022-10-10 17:45	9441927	8.160	-111.866	297.591	9.603	381.2	540.006	0.261	0.351	7.929	9.603	2.175
2022-10-10 18:00	9442828	8.159	-111.845	295.791	9.606	381.239	540.019	0.261	0.351	7.880	9.606	2.199
2022-10-10 18:15	9443728	8.159	-111.811	297.059	9.611	381.205	539.898	0.261	0.351	7.875	9.611	7.057
2022-10-10 18:30	9444628	8.156	-111.642	299.191	9.602	380.944	539.657	0.260	0.351	7.724	9.602	2.07
2022-10-10 18:45	9445528	8.154	-111.542	300.199	9.59	380.93	539.813	0.260	0.351	7.699	9.59	1.857
2022-10-10 19:00	9446428	8.155	-111.592	298.554	9.574	380.911	540.017	0.261	0.351	7.694	9.574	2.54
2022-10-10 19:15	9447328	8.156	-111.609	297.777	9.537	380.499	539.984	0.261	0.351	7.711	9.537	2.973
2022-10-10 19:30	9448228	8.182	-113.013	295.862	9.517	379.932	539.459	0.260	0.351	8.032	9.517	2.971
2022-10-10 19:45	9449128	8.212	-114.622	294.034	9.435	378.714	538.931	0.260	0.350	8.886	9.435	3.888
2022-10-10 20:00	9450028	8.230	-115.6	290.109	9.41	378.772	539.386	0.260	0.351	8.879	9.41	4.289
2022-10-10 20:15	9450928	8.234	-115.857	291.249	9.405	378.816	539.517	0.260	0.351	8.787	9.405	4.16
2022-10-10 20:30	9451828	8.237	-116.005	293.276	9.394	378.734	539.569	0.260	0.351	8.791	9.394	4.537
2022-10-10 20:45	9452728	8.234	-115.798	294.189	9.381	378.586	539.542	0.260	0.351	8.588	9.381	3.617
2022-10-10 21:00	9453628	8.222	-115.137	293.69	9.326	377.83	539.28	0.260	0.351	8.576	9.326	3.306
2022-10-10 21:15	9454528	8.236	-115.905	294.296	9.301	377.514	539.193	0.260	0.350	8.643	9.301	3.499
2022-10-10 21:30	9455428	8.231	-115.609	294.186	9.271	377.193	539.181	0.260	0.350	8.673	9.271	4.01
2022-10-10 21:45	9456328	8.231	-115.595	292.267	9.248	377.098	539.372	0.260	0.351	8.725	9.248	3.809
2022-10-10 22:00	9457228	8.233	-115.702	288.715	9.235	377.178	539.684	0.260	0.351	8.607	9.235	4.196
2022-10-10 22:15	9458128	8.233	-115.688	290.6	9.229	377.208	539.818	0.260	0.351	8.629	9.229	3.762
2022-10-10 22:30	9459028	8.225	-115.247	292.32	9.193	376.843	539.817	0.260	0.351	8.522	9.193	3.242
2022-10-10 22:45	9459928	8.215	-114.698	294.315	9.153	376.537	539.972	0.260	0.351	8.405	9.153	4.28

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-10 23:00	9460828	8.201	-113.912	294.241	9.143	376.423	539.963	0.260	0.351	8.350	9.143	3.16
2022-10-10 23:15	9461728	8.206	-114.212	295.836	9.138	376.321	539.881	0.260	0.351	8.238	9.138	2.799
2022-10-10 23:30	9462628	8.197	-113.688	296.191	9.113	375.944	539.722	0.260	0.351	8.338	9.113	4.072
2022-10-10 23:45	9463528	8.190	-113.32	294.894	9.07	375.449	539.635	0.260	0.351	8.334	9.07	4.523
2022-10-11 00:00	9464428	8.200	-113.807	292.954	9.011	375.145	540.074	0.260	0.351	8.268	9.011	4.511
2022-10-11 00:15	9465328	8.213	-114.534	293.588	8.966	374.71	540.128	0.260	0.351	8.431	8.966	4.504
2022-10-11 00:30	9466228	8.208	-114.241	294.394	8.948	374.576	540.196	0.260	0.351	8.256	8.948	4.088
2022-10-11 00:45	9467128	8.201	-113.826	294.778	8.908	374.281	540.364	0.260	0.351	8.197	8.908	4.035
2022-10-11 01:00	9468028	8.187	-113.06	294.143	8.876	373.788	540.136	0.260	0.351	8.068	8.876	3.799
2022-10-11 01:15	9468928	8.196	-113.516	294.742	8.84	373.361	540.044	0.260	0.351	8.156	8.84	4.179
2022-10-11 01:30	9469828	8.203	-113.926	294.222	8.843	373.392	540.055	0.260	0.351	8.224	8.843	4.12
2022-10-11 01:45	9470728	8.195	-113.459	293.194	8.831	373.371	540.203	0.260	0.351	8.191	8.831	4.233
2022-10-11 02:00	9471628	8.192	-113.33	291.931	8.84	373.232	539.862	0.260	0.351	8.152	8.84	5.602
2022-10-11 02:15	9472528	8.191	-113.23	293.297	8.832	373.664	540.604	0.260	0.351	8.101	8.832	3.581
2022-10-11 02:30	9473428	8.187	-113.015	294.134	8.799	373.276	540.536	0.260	0.351	8.124	8.799	3.781
2022-10-11 02:45	9474328	8.181	-112.703	294.437	8.765	372.937	540.551	0.260	0.351	8.022	8.765	3.79
2022-10-11 03:00	9475228	8.170	-112.062	293.848	8.746	372.545	540.28	0.260	0.351	8.030	8.746	3.715
2022-10-11 03:15	9476128	8.172	-112.174	294.763	8.742	372.596	540.408	0.260	0.351	7.964	8.742	4.158
2022-10-11 03:30	9477028	8.166	-111.828	294.575	8.729	372.44	540.381	0.260	0.351	7.879	8.729	3.854
2022-10-11 03:45	9477928	8.156	-111.282	293.483	8.701	372.174	540.41	0.260	0.351	7.866	8.701	4.564
2022-10-11 04:00	9478828	8.147	-110.803	292.572	8.677	372.155	540.743	0.260	0.351	7.843	8.677	3.868
2022-10-11 04:15	9479728	8.150	-110.931	293.655	8.667	372.159	540.898	0.260	0.352	7.679	8.667	3.28
2022-10-11 04:30	9480628	8.137	-110.235	294.503	8.65	372.027	540.96	0.260	0.352	7.673	8.65	4.931
2022-10-11 04:45	9481528	8.132	-109.956	295.102	8.65	372.049	540.997	0.260	0.352	7.565	8.65	3.282
2022-10-11 05:00	9482428	8.122	-109.398	295.502	8.64	371.785	540.754	0.260	0.351	7.529	8.64	3.302
2022-10-11 05:15	9483328	8.133	-110.006	296.079	8.626	371.456	540.487	0.260	0.351	7.631	8.626	2.882
2022-10-11 05:30	9484228	8.131	-109.899	295.214	8.593	370.958	540.266	0.260	0.351	7.701	8.593	3.589
2022-10-11 05:45	9485128	8.139	-110.297	294.465	8.557	370.715	540.448	0.260	0.351	7.751	8.557	3.384
2022-10-11 06:00	9486028	8.145	-110.645	293.056	8.533	370.606	540.646	0.260	0.351	7.799	8.533	3.683
2022-10-11 06:15	9486928	8.147	-110.762	293.9	8.531	370.671	540.771	0.260	0.352	7.697	8.531	3.603
2022-10-11 06:30	9487828	8.135	-110.064	295.262	8.504	370.47	540.886	0.260	0.352	7.579	8.504	3.226
2022-10-11 06:45	9488728	8.133	-109.944	295.099	8.471	370.09	540.828	0.260	0.352	7.598	8.471	4.462
2022-10-11 07:00	9489628	8.126	-109.58	294.475	8.444	369.729	540.717	0.260	0.351	7.593	8.444	3.869
2022-10-11 07:15	9490528	8.126	-109.549	295.929	8.436	369.609	540.664	0.260	0.351	7.618	8.436	3.278
2022-10-11 07:30	9491428	8.126	-109.529	294.608	8.401	369.065	540.393	0.260	0.351	7.597	8.401	3.259
2022-10-11 07:45	9492328	8.148	-110.714	293.416	8.385	369.218	540.855	0.260	0.352	7.846	8.385	3.613
2022-10-11 08:00	9493228	8.132	-109.873	292.966	8.378	369.127	540.827	0.260	0.352	7.777	8.378	2.944
2022-10-11 08:15	9494128	8.138	-110.164	293.602	8.352	368.754	540.68	0.260	0.351	7.685	8.352	4.34
2022-10-11 08:30	9495028	8.141	-110.323	293.929	8.318	368.481	540.794	0.260	0.352	7.605	8.318	4.606
2022-10-11 08:45	9495928	8.146	-110.595	293.743	8.296	368.248	540.783	0.260	0.352	7.838	8.296	4.089
2022-10-11 09:00	9496828	8.137	-110.109	293.872	8.294	368.099	540.596	0.260	0.351	7.692	8.294	3.854
2022-10-11 09:15	9497728	8.157	-111.21	294.744	8.298	367.954	540.326	0.260	0.351	7.836	8.298	4.244
2022-10-11 09:30	9498628	8.153	-110.977	294.36	8.268	367.685	540.386	0.260	0.351	7.841	8.268	3.855

TABLE C1

Upstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723090 pH (pH)	Sensor: pH/ORP SN#: 723090 pH(mV) (mV)	Sensor: pH/ORP SN#: 723090 Oxidation Reduction Potential (ORP)	Sensor: Cond SN#: 737314 Temperature (C)	Sensor: Cond SN#: 737314 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 737314 Salinity (PSU)	Sensor: Cond SN#: 737314 Total Dissolved Solids (ppt)	Sensor: RDO SN#: 732433 Dissolved Oxygen (concentration)	Sensor: Internal SN#: 740839 Temperature (C)	Sensor: Turb SN#: 730625 Turbidity (NTU)
2022-10-11 09:45	9499528	8.165	-111.58	293.457	8.231	367.255	540.31	0.260	0.351	7.879	8.231	4.089
2022-10-11 10:00	9500428	8.164	-111.561	290.801	8.24	367.57	540.629	0.260	0.351	7.970	8.24	3.903
AEP Freshwater Aquatic Life*		**6.5-9.0[pH]**	**NS**	**NS**	**narrative**	**NS**	**NS**	**NS**	**NS**	**6.5[DO]**	**NS**	**narrative**

Notes:

DO - minimum long-term exposure guideline; see applicable guidelines for further details

pH - not to be altered by more than 0.5 units from background

narrative - see applicable guidelines for further details

NS - not specified

SO4 - guideline level is hardness dependent; hardness values greater than 250 mg/L need to be determined based on site water

* - *Environmental Quality Guidelines for Alberta Surface Waters* (AEP 2018)

Italics - values do not meet applicable guidelines

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-23 14:00	0	7.897	-102.975	17.351	239.969	281.023	0.135	20.812	17.351	8.370
2022-06-23 14:15	900	8.235	-121.891	17.409	240.463	281.239	0.135	13.932	17.409	8.376
2022-06-23 14:30	1800	8.256	-123.105	17.462	241.376	281.974	0.135	16.697	17.462	8.401
2022-06-23 14:45	2700	8.271	-123.947	17.479	241.278	281.752	0.135	16.304	17.479	8.420
2022-06-23 15:00	3600	8.285	-124.753	17.505	240.449	280.619	0.135	15.819	17.505	8.443
2022-06-23 15:15	4500	8.285	-124.738	17.512	240.757	280.937	0.135	16.435	17.512	8.460
2022-06-23 15:30	5400	8.294	-125.239	17.510	241.992	282.391	0.135	16.855	17.510	8.463
2022-06-23 15:45	6300	8.300	-125.618	17.527	240.953	281.074	0.135	19.090	17.527	8.492
2022-06-23 16:00	7200	8.302	-125.747	17.541	242.669	282.983	0.136	20.314	17.541	8.504
2022-06-23 16:15	8100	8.307	-126.016	17.576	241.802	281.755	0.135	16.068	17.576	8.542
2022-06-23 16:30	9000	8.313	-126.383	17.609	241.519	281.217	0.135	18.105	17.609	8.568
2022-06-23 16:45	9900	8.321	-126.860	17.644	241.750	281.268	0.135	17.639	17.644	8.595
2022-06-23 17:00	10800	8.324	-127.022	17.653	242.074	281.590	0.135	15.598	17.653	8.602
2022-06-23 17:15	11700	8.323	-126.967	17.677	241.759	281.074	0.135	17.783	17.677	8.622
2022-06-23 17:30	12600	8.325	-127.077	17.685	241.779	281.043	0.135	15.554	17.685	8.621
2022-06-23 17:45	13500	8.327	-127.220	17.698	241.594	280.751	0.135	14.448	17.698	8.637
2022-06-23 18:00	14400	8.337	-127.757	17.723	241.913	280.966	0.135	17.147	17.723	8.662
2022-06-23 18:15	15300	8.336	-127.704	17.749	242.367	281.327	0.135	15.786	17.749	8.681
2022-06-23 18:30	16200	8.348	-128.410	17.775	244.582	283.735	0.136	18.459	17.775	8.694
2022-06-23 18:45	17100	8.354	-128.741	17.814	243.152	281.837	0.135	16.964	17.814	8.721
2022-06-23 19:00	18000	8.348	-128.446	17.837	243.869	282.520	0.136	16.503	17.837	8.720
2022-06-23 19:15	18900	8.351	-128.598	17.865	241.952	280.125	0.134	16.390	17.865	8.731
2022-06-23 19:30	19800	8.359	-129.097	17.882	242.259	280.375	0.134	15.608	17.882	8.732
2022-06-23 19:45	20700	8.361	-129.163	17.891	243.368	281.604	0.135	15.186	17.891	8.735
2022-06-23 20:00	21600	8.372	-129.824	17.905	243.228	281.356	0.135	15.474	17.905	8.747
2022-06-23 20:15	22500	8.371	-129.738	17.910	243.765	281.943	0.135	15.368	17.910	8.751
2022-06-23 20:30	23400	8.368	-129.571	17.909	243.169	281.262	0.135	15.026	17.909	8.744
2022-06-23 20:45	24300	8.372	-129.771	17.885	243.812	282.154	0.135	13.352	17.885	8.743
2022-06-23 21:00	25200	8.381	-130.317	17.868	243.342	281.721	0.135	16.028	17.868	8.723
2022-06-23 21:15	26100	8.371	-129.731	17.848	243.094	281.555	0.135	14.173	17.848	8.726
2022-06-23 21:30	27000	8.370	-129.671	17.824	242.755	281.311	0.135	16.739	17.824	8.711
2022-06-23 21:45	27900	8.373	-129.805	17.795	243.094	281.885	0.135	16.496	17.795	8.701
2022-06-23 22:00	28800	8.375	-129.902	17.764	243.011	281.985	0.135	17.691	17.764	8.679
2022-06-23 22:15	29700	8.372	-129.740	17.726	243.614	282.923	0.136	13.256	17.726	8.666
2022-06-23 22:30	30600	8.374	-129.826	17.688	241.952	281.230	0.135	13.358	17.688	8.658
2022-06-23 22:45	31500	8.373	-129.759	17.645	241.732	281.240	0.135	13.942	17.645	8.643
2022-06-23 23:00	32400	8.375	-129.862	17.589	242.391	282.359	0.135	18.180	17.589	8.625
2022-06-23 23:15	33300	8.368	-129.416	17.535	242.901	283.294	0.136	13.954	17.535	8.614
2022-06-23 23:30	34200	8.362	-129.082	17.490	242.505	283.114	0.136	14.049	17.490	8.598
2022-06-23 23:45	35100	8.359	-128.887	17.449	240.507	281.039	0.135	15.866	17.449	8.582
2022-06-24 0:00	36000	8.368	-129.347	17.407	240.779	281.619	0.135	14.911	17.407	8.566
2022-06-24 0:15	36900	8.362	-129.023	17.369	240.637	281.692	0.135	15.679	17.369	8.544
2022-06-24 0:30	37800	8.347	-128.171	17.315	242.232	283.906	0.136	17.000	17.315	8.542
2022-06-24 0:45	38700	8.354	-128.527	17.275	241.439	283.229	0.136	14.625	17.275	8.522

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-24 1:00	39600	8.358	-128.720	17.234	240.848	282.796	0.136	15.736	17.234	8.507
2022-06-24 1:15	40500	8.347	-128.083	17.194	241.040	283.277	0.136	12.877	17.194	8.496
2022-06-24 1:30	41400	8.345	-127.969	17.157	240.125	282.431	0.135	13.852	17.157	8.483
2022-06-24 1:45	42300	8.345	-127.969	17.122	240.334	282.900	0.136	15.173	17.122	8.473
2022-06-24 2:00	43200	8.349	-128.133	17.086	240.330	283.124	0.136	13.409	17.086	8.453
2022-06-24 2:15	44100	8.337	-127.492	17.050	240.618	283.697	0.136	12.422	17.050	8.450
2022-06-24 2:30	45000	8.339	-127.549	17.014	240.684	284.003	0.136	14.996	17.014	8.442
2022-06-24 2:45	45900	8.334	-127.239	16.968	242.490	286.428	0.137	14.283	16.968	8.424
2022-06-24 3:00	46800	8.342	-127.690	16.938	240.635	284.431	0.136	13.520	16.938	8.417
2022-06-24 3:15	47700	8.330	-127.018	16.898	241.559	285.784	0.137	13.152	16.898	8.409
2022-06-24 3:30	48600	8.327	-126.808	16.858	241.240	285.663	0.137	12.056	16.858	8.394
2022-06-24 3:45	49500	8.319	-126.379	16.815	241.894	286.719	0.137	16.635	16.815	8.379
2022-06-24 4:00	50400	8.329	-126.913	16.779	240.989	285.875	0.137	13.624	16.779	8.374
2022-06-24 4:15	51300	8.319	-126.331	16.733	240.753	285.897	0.137	12.839	16.733	8.359
2022-06-24 4:30	52200	8.318	-126.238	16.690	240.913	286.362	0.137	13.214	16.690	8.354
2022-06-24 4:45	53100	8.311	-125.823	16.643	241.478	287.341	0.138	12.459	16.643	8.340
2022-06-24 5:00	54000	8.316	-126.104	16.598	242.070	288.344	0.138	14.101	16.598	8.331
2022-06-24 5:15	54900	8.307	-125.585	16.547	242.915	289.682	0.139	13.778	16.547	8.323
2022-06-24 5:30	55800	8.299	-125.127	16.504	241.240	287.970	0.138	14.026	16.504	8.318
2022-06-24 5:45	56700	8.297	-124.974	16.442	243.392	290.952	0.140	12.966	16.442	8.312
2022-06-24 6:00	57600	8.304	-125.353	16.408	241.469	288.878	0.139	12.834	16.408	8.305
2022-06-24 6:15	58500	8.294	-124.793	16.356	242.121	290.002	0.139	14.727	16.356	8.301
2022-06-24 6:30	59400	8.295	-124.800	16.308	242.415	290.669	0.139	13.225	16.308	8.307
2022-06-24 6:45	60300	8.290	-124.528	16.263	242.798	291.429	0.140	13.960	16.263	8.306
2022-06-24 7:00	61200	8.294	-124.693	16.221	241.965	290.708	0.139	13.115	16.221	8.302
2022-06-24 7:15	62100	8.282	-124.040	16.183	242.159	291.201	0.140	13.010	16.183	8.306
2022-06-24 7:30	63000	8.282	-124.030	16.152	243.186	292.644	0.140	13.073	16.152	8.312
2022-06-24 7:45	63900	8.277	-123.699	16.128	242.225	291.644	0.140	13.064	16.128	8.311
2022-06-24 8:00	64800	8.287	-124.271	16.088	243.123	292.994	0.140	15.716	16.088	8.303
2022-06-24 8:15	65700	8.274	-123.525	16.059	242.282	292.181	0.140	13.080	16.059	8.296
2022-06-24 8:30	66600	8.272	-123.405	16.030	242.801	293.003	0.140	14.375	16.030	8.300
2022-06-24 8:45	67500	8.272	-123.394	16.015	241.938	292.060	0.140	16.227	16.015	8.296
2022-06-24 9:00	68400	8.269	-123.217	15.988	244.121	294.876	0.141	16.755	15.988	8.290
2022-06-24 9:15	69300	8.269	-123.229	15.998	242.575	292.944	0.140	14.405	15.998	8.320
2022-06-24 9:30	70200	8.266	-123.048	15.998	242.759	293.162	0.141	16.053	15.998	8.332
2022-06-24 9:45	71100	8.259	-122.678	16.005	242.829	293.203	0.141	17.945	16.005	8.324
2022-06-24 10:00	72000	8.270	-123.291	16.000	243.959	294.598	0.141	16.239	16.000	8.343
2022-06-24 10:15	72900	8.269	-123.205	16.029	243.625	294.001	0.141	15.424	16.029	8.371
2022-06-24 10:30	73800	8.262	-122.838	16.064	243.378	293.468	0.141	12.624	16.064	8.381
2022-06-24 10:45	74700	8.263	-122.945	16.078	243.450	293.459	0.141	14.293	16.078	8.387
2022-06-24 11:00	75600	8.269	-123.250	16.113	244.273	294.215	0.141	16.046	16.113	8.421
2022-06-24 11:15	76500	8.261	-122.848	16.158	244.672	294.388	0.141	15.605	16.158	8.433
2022-06-24 11:30	77400	8.254	-122.480	16.210	244.373	293.675	0.141	13.668	16.210	8.453
2022-06-24 11:45	78300	8.259	-122.745	16.229	245.037	294.350	0.141	15.135	16.229	8.450

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-24 12:00	79200	8.262	-122.929	16.246	245.796	295.142	0.142	14.008	16.246	8.477
2022-06-24 12:15	80100	8.263	-122.981	16.290	246.116	295.233	0.142	16.585	16.290	8.501
2022-06-24 12:30	81000	8.260	-122.869	16.328	246.221	295.097	0.142	15.734	16.328	8.519
2022-06-24 12:45	81900	8.261	-122.950	16.373	245.851	294.352	0.141	15.292	16.373	8.540
2022-06-24 13:00	82800	8.270	-123.460	16.437	247.004	295.301	0.142	15.009	16.437	8.578
2022-06-24 13:15	83700	8.266	-123.284	16.535	247.368	295.074	0.142	16.060	16.535	8.604
2022-06-24 13:30	84600	8.268	-123.448	16.637	247.471	294.514	0.141	15.035	16.637	8.634
2022-06-24 13:45	85500	8.267	-123.401	16.675	248.161	295.081	0.142	15.259	16.675	8.631
2022-06-24 14:00	86400	8.280	-124.135	16.768	250.174	296.850	0.142	14.013	16.768	8.696
2022-06-24 14:15	87300	8.282	-124.321	16.855	249.963	296.017	0.142	14.146	16.855	8.733
2022-06-24 14:30	88200	8.286	-124.559	16.950	250.546	296.070	0.142	13.482	16.950	8.769
2022-06-24 14:45	89100	8.284	-124.524	17.037	250.779	295.765	0.142	26.336	17.037	8.788
2022-06-24 15:00	90000	8.115	-114.260	15.008	0.055	0.068	0.000	0.000	15.008	9.372
2022-06-24 15:15	90900	7.690	-90.697	15.247	0.000	0.000	0.000	0.000	15.247	9.388
2022-06-24 15:30	91800	8.759	-150.492	15.949	0.000	0.000	0.000	0.018	15.949	9.291
2022-06-24 15:45	92700	***9.777***	-207.357	16.130	0.000	0.000	0.000	0.111	16.130	9.389
2022-06-24 16:00	93600	8.282	-124.536	17.436	252.239	294.832	0.142	27.869	17.436	9.057
2022-06-24 16:15	94500	8.279	-124.497	17.650	253.784	295.232	0.142	15.731	17.650	9.007
2022-06-24 16:30	95400	8.286	-124.938	17.734	253.983	294.908	0.142	14.812	17.734	9.044
2022-06-24 16:45	96300	8.294	-125.430	17.889	254.396	294.379	0.141	12.522	17.889	9.091
2022-06-24 17:00	97200	8.311	-126.412	17.992	255.079	294.499	0.141	15.276	17.992	9.114
2022-06-24 17:15	98100	8.304	-126.069	18.106	255.714	294.494	0.141	14.533	18.106	9.134
2022-06-24 17:30	99000	8.315	-126.715	18.205	256.340	294.568	0.141	13.908	18.205	9.161
2022-06-24 17:45	99900	8.317	-126.908	18.299	257.048	294.777	0.142	14.389	18.299	9.184
2022-06-24 18:00	100800	8.334	-127.907	18.385	257.379	294.600	0.141	12.027	18.385	9.206
2022-06-24 18:15	101700	8.328	-127.554	18.429	257.651	294.630	0.141	13.474	18.429	9.197
2022-06-24 18:30	102600	8.338	-128.183	18.534	258.570	295.000	0.142	14.392	18.534	9.233
2022-06-24 18:45	103500	8.336	-128.071	18.597	258.397	294.403	0.141	16.047	18.597	9.218
2022-06-24 19:00	104400	8.357	-129.313	18.706	259.163	294.573	0.141	15.276	18.706	9.263
2022-06-24 19:15	105300	8.359	-129.449	18.801	259.513	294.368	0.141	14.745	18.801	9.259
2022-06-24 19:30	106200	8.352	-129.106	18.899	260.221	294.544	0.141	13.757	18.899	9.252
2022-06-24 19:45	107100	8.366	-129.955	18.965	260.785	294.763	0.142	13.450	18.965	9.257
2022-06-24 20:00	108000	8.369	-130.169	19.036	261.066	294.628	0.142	14.287	19.036	9.244
2022-06-24 20:15	108900	8.350	-129.116	19.082	261.107	294.380	0.141	14.519	19.082	9.246
2022-06-24 20:30	109800	8.362	-129.769	19.129	261.612	294.653	0.142	13.070	19.129	9.236
2022-06-24 20:45	110700	8.370	-130.265	19.157	262.025	294.939	0.142	13.878	19.157	9.228
2022-06-24 21:00	111600	8.379	-130.796	19.186	261.739	294.433	0.141	13.801	19.186	9.211
2022-06-24 21:15	112500	8.374	-130.482	19.201	261.973	294.604	0.142	13.900	19.201	9.194
2022-06-24 21:30	113400	8.376	-130.589	19.209	261.642	294.181	0.141	14.975	19.209	9.171
2022-06-24 21:45	114300	8.380	-130.835	19.198	261.876	294.515	0.141	15.481	19.198	9.152
2022-06-24 22:00	115200	8.390	-131.404	19.183	261.575	294.269	0.141	13.676	19.183	9.117
2022-06-24 22:15	116100	8.383	-130.973	19.159	261.397	294.224	0.141	16.834	19.159	9.113
2022-06-24 22:30	117000	8.374	-130.453	19.130	261.028	293.987	0.141	16.611	19.130	9.075
2022-06-24 22:45	117900	8.378	-130.663	19.092	261.071	294.276	0.141	16.403	19.092	9.052

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-24 23:00	118800	8.387	-131.171	19.057	260.542	293.901	0.141	16.042	19.057	9.020
2022-06-24 23:15	119700	8.377	-130.601	19.009	260.109	293.721	0.141	15.125	19.009	8.997
2022-06-24 23:30	120600	8.383	-130.920	18.952	259.947	293.897	0.141	15.565	18.952	8.966
2022-06-24 23:45	121500	8.383	-130.897	18.906	259.310	293.469	0.141	16.418	18.906	8.944
2022-06-25 0:00	122400	8.388	-131.114	18.845	259.095	293.614	0.141	15.069	18.845	8.925
2022-06-25 0:15	123300	8.373	-130.277	18.783	258.592	293.434	0.141	14.667	18.783	8.894
2022-06-25 0:30	124200	8.368	-129.936	18.722	258.257	293.442	0.141	12.727	18.722	8.876
2022-06-25 0:45	125100	8.381	-130.637	18.656	257.634	293.154	0.141	16.230	18.656	8.849
2022-06-25 1:00	126000	8.391	-131.176	18.596	257.289	293.148	0.141	13.205	18.596	8.826
2022-06-25 1:15	126900	8.381	-130.606	18.539	256.595	292.719	0.141	15.271	18.539	8.804
2022-06-25 1:30	127800	8.384	-130.715	18.489	256.276	292.674	0.141	14.490	18.489	8.776
2022-06-25 1:45	128700	8.385	-130.785	18.440	255.850	292.499	0.140	14.299	18.440	8.751
2022-06-25 2:00	129600	8.391	-131.114	18.395	255.664	292.571	0.140	14.755	18.395	8.715
2022-06-25 2:15	130500	8.376	-130.255	18.355	255.366	292.489	0.140	14.806	18.355	8.686
2022-06-25 2:30	131400	8.378	-130.343	18.317	254.845	292.137	0.140	15.272	18.317	8.659
2022-06-25 2:45	132300	8.378	-130.322	18.280	254.549	292.029	0.140	15.462	18.280	8.619
2022-06-25 3:00	133200	8.387	-130.823	18.243	254.316	292.002	0.140	13.650	18.243	8.584
2022-06-25 3:15	134100	8.375	-130.122	18.200	254.047	291.965	0.140	13.425	18.200	8.554
2022-06-25 3:30	135000	8.377	-130.210	18.156	253.756	291.917	0.140	15.032	18.156	8.517
2022-06-25 3:45	135900	8.373	-129.967	18.115	252.720	290.983	0.140	12.090	18.115	8.491
2022-06-25 4:00	136800	8.381	-130.377	18.062	252.771	291.381	0.140	13.673	18.062	8.446
2022-06-25 4:15	137700	8.370	-129.740	18.011	252.690	291.620	0.140	13.227	18.011	8.430
2022-06-25 4:30	138600	8.369	-129.640	17.956	251.879	291.038	0.140	12.280	17.956	8.397
2022-06-25 4:45	139500	8.363	-129.285	17.897	251.732	291.246	0.140	13.521	17.897	8.381
2022-06-25 5:00	140400	8.366	-129.428	17.833	251.112	290.939	0.140	15.214	17.833	8.356
2022-06-25 5:15	141300	8.352	-128.622	17.768	250.779	290.971	0.140	13.016	17.768	8.338
2022-06-25 5:30	142200	8.355	-128.741	17.705	249.970	290.440	0.139	14.284	17.705	8.317
2022-06-25 5:45	143100	8.346	-128.238	17.638	249.508	290.332	0.139	12.837	17.638	8.306
2022-06-25 6:00	144000	8.352	-128.562	17.572	249.234	290.444	0.139	14.783	17.572	8.289
2022-06-25 6:15	144900	8.340	-127.828	17.505	248.663	290.209	0.139	13.937	17.505	8.276
2022-06-25 6:30	145800	8.335	-127.535	17.434	248.325	290.271	0.139	13.716	17.434	8.266
2022-06-25 6:45	146700	8.335	-127.516	17.375	247.636	289.846	0.139	13.315	17.375	8.258
2022-06-25 7:00	147600	8.336	-127.549	17.303	247.130	289.725	0.139	13.320	17.303	8.254
2022-06-25 7:15	148500	8.325	-126.894	17.236	246.643	289.584	0.139	13.787	17.236	8.241
2022-06-25 7:30	149400	8.313	-126.157	17.165	246.284	289.628	0.139	13.298	17.165	8.238
2022-06-25 7:45	150300	8.314	-126.197	17.105	245.688	289.316	0.139	14.577	17.105	8.232
2022-06-25 8:00	151200	8.323	-126.705	17.043	245.454	289.446	0.139	15.651	17.043	8.234
2022-06-25 8:15	152100	8.308	-125.840	16.981	244.845	289.130	0.139	14.898	16.981	8.231
2022-06-25 8:30	153000	8.303	-125.513	16.922	244.484	289.085	0.139	13.402	16.922	8.228
2022-06-25 8:45	153900	8.301	-125.370	16.878	244.047	288.855	0.139	15.319	16.878	8.232
2022-06-25 9:00	154800	8.306	-125.668	16.843	243.829	288.828	0.139	15.388	16.843	8.230
2022-06-25 9:15	155700	8.294	-124.962	16.806	243.532	288.718	0.138	14.456	16.806	8.232
2022-06-25 9:30	156600	8.293	-124.891	16.779	243.502	288.856	0.139	14.857	16.779	8.233
2022-06-25 9:45	157500	8.291	-124.757	16.764	243.364	288.794	0.139	15.877	16.764	8.242

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-25 10:00	158400	8.300	-125.256	16.760	243.131	288.543	0.138	15.202	16.760	8.254
2022-06-25 10:15	159300	8.285	-124.443	16.771	243.114	288.453	0.138	14.954	16.771	8.269
2022-06-25 10:30	160200	8.286	-124.478	16.790	243.010	288.203	0.138	17.041	16.790	8.275
2022-06-25 10:45	161100	8.284	-124.421	16.818	242.979	287.981	0.138	13.794	16.818	8.291
2022-06-25 11:00	162000	8.289	-124.674	16.851	243.293	288.143	0.138	15.871	16.851	8.313
2022-06-25 11:15	162900	8.281	-124.283	16.885	243.347	287.981	0.138	14.651	16.885	8.312
2022-06-25 11:30	163800	8.278	-124.121	16.932	243.293	287.614	0.138	12.724	16.932	8.335
2022-06-25 11:45	164700	8.281	-124.321	16.980	243.465	287.507	0.138	13.657	16.980	8.348
2022-06-25 12:00	165600	8.283	-124.416	17.028	244.002	287.831	0.138	13.917	17.028	8.363
2022-06-25 12:15	166500	8.272	-123.839	17.075	244.177	287.732	0.138	13.437	17.075	8.379
2022-06-25 12:30	167400	8.267	-123.620	17.141	244.300	287.451	0.138	18.850	17.141	8.394
2022-06-25 12:45	168300	8.266	-123.558	17.212	244.646	287.393	0.138	13.836	17.212	8.416
2022-06-25 13:00	169200	8.277	-124.230	17.271	244.953	287.374	0.138	14.271	17.271	8.433
2022-06-25 13:15	170100	8.268	-123.715	17.339	245.058	287.062	0.138	14.322	17.339	8.456
2022-06-25 13:30	171000	8.272	-123.990	17.414	245.378	286.956	0.138	13.192	17.414	8.472
2022-06-25 13:45	171900	8.269	-123.880	17.500	245.835	286.937	0.138	16.680	17.500	8.506
2022-06-25 14:00	172800	8.275	-124.216	17.587	246.347	286.978	0.138	13.975	17.587	8.533
2022-06-25 14:15	173700	8.274	-124.209	17.684	246.650	286.712	0.138	13.704	17.684	8.555
2022-06-25 14:30	174600	8.280	-124.590	17.779	247.115	286.648	0.138	14.674	17.779	8.587
2022-06-25 14:45	175500	8.280	-124.621	17.879	247.557	286.529	0.137	12.805	17.879	8.620
2022-06-25 15:00	176400	8.284	-124.884	17.981	247.973	286.361	0.137	14.594	17.981	8.663
2022-06-25 15:15	177300	8.281	-124.779	18.094	248.466	286.222	0.137	13.585	18.094	8.697
2022-06-25 15:30	178200	8.286	-125.127	18.202	248.937	286.084	0.137	15.190	18.202	8.733
2022-06-25 15:45	179100	8.284	-125.070	18.324	249.686	286.180	0.137	12.654	18.324	8.765
2022-06-25 16:00	180000	8.304	-126.240	18.440	250.169	286.002	0.137	15.552	18.440	8.810
2022-06-25 16:15	180900	8.291	-125.573	18.560	250.719	285.886	0.137	13.066	18.560	8.839
2022-06-25 16:30	181800	8.301	-126.193	18.698	251.355	285.748	0.137	13.063	18.698	8.871
2022-06-25 16:45	182700	8.304	-126.364	18.810	251.947	285.725	0.137	13.834	18.810	8.904
2022-06-25 17:00	183600	8.319	-127.270	18.924	252.424	285.565	0.137	14.638	18.924	8.939
2022-06-25 17:15	184500	8.322	-127.478	19.021	252.850	285.446	0.137	13.373	19.021	8.960
2022-06-25 17:30	185400	8.324	-127.661	19.149	253.461	285.352	0.137	12.779	19.149	8.989
2022-06-25 17:45	186300	8.331	-128.090	19.253	253.791	285.086	0.137	12.719	19.253	9.005
2022-06-25 18:00	187200	8.335	-128.372	19.358	254.450	285.184	0.137	13.271	19.358	9.016
2022-06-25 18:15	188100	8.330	-128.119	19.436	254.868	285.175	0.137	12.991	19.436	9.037
2022-06-25 18:30	189000	8.332	-128.250	19.525	255.152	284.950	0.137	13.927	19.525	9.052
2022-06-25 18:45	189900	8.332	-128.293	19.616	255.686	284.990	0.137	13.528	19.616	9.060
2022-06-25 19:00	190800	8.339	-128.763	19.709	256.455	285.286	0.137	11.597	19.709	9.071
2022-06-25 19:15	191700	8.345	-129.118	19.802	256.903	285.217	0.137	13.533	19.802	9.087
2022-06-25 19:30	192600	8.345	-129.168	19.889	257.541	285.401	0.137	13.211	19.889	9.076
2022-06-25 19:45	193500	8.352	-129.576	19.965	258.201	285.671	0.137	13.384	19.965	9.080
2022-06-25 20:00	194400	8.351	-129.554	20.051	259.141	286.194	0.137	11.407	20.051	9.082
2022-06-25 20:15	195300	8.350	-129.573	20.133	259.826	286.453	0.138	13.681	20.133	9.078
2022-06-25 20:30	196200	8.341	-129.080	20.221	260.644	286.827	0.138	16.237	20.221	9.085
2022-06-25 20:45	197100	8.353	-129.807	20.289	261.535	287.396	0.138	12.817	20.289	9.080

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-25 21:00	198000	8.362	-130.303	20.344	262.104	287.686	0.138	12.914	20.344	9.064
2022-06-25 21:15	198900	8.360	-130.248	20.384	262.727	288.132	0.138	14.251	20.384	9.047
2022-06-25 21:30	199800	8.363	-130.434	20.424	263.180	288.387	0.139	13.711	20.424	9.034
2022-06-25 21:45	200700	8.366	-130.587	20.459	263.745	288.791	0.139	13.472	20.459	9.010
2022-06-25 22:00	201600	8.374	-131.078	20.490	264.516	289.449	0.139	13.277	20.490	8.986
2022-06-25 22:15	202500	8.368	-130.775	20.520	264.969	289.762	0.139	14.259	20.520	8.971
2022-06-25 22:30	203400	8.369	-130.794	20.546	265.473	290.157	0.139	14.782	20.546	8.945
2022-06-25 22:45	204300	8.372	-130.968	20.560	265.914	290.552	0.140	14.173	20.560	8.924
2022-06-25 23:00	205200	8.374	-131.102	20.569	266.444	291.076	0.140	14.084	20.569	8.896
2022-06-25 23:15	206100	8.354	-130.003	20.574	267.052	291.715	0.140	13.815	20.574	8.869
2022-06-25 23:30	207000	8.362	-130.436	20.572	267.420	292.124	0.140	14.181	20.572	8.844
2022-06-25 23:45	207900	8.369	-130.839	20.558	267.806	292.634	0.141	12.864	20.558	8.810
2022-06-26 0:00	208800	8.380	-131.426	20.541	268.307	293.286	0.141	13.140	20.541	8.779
2022-06-26 0:15	209700	8.372	-130.944	20.516	268.447	293.592	0.141	12.400	20.516	8.755
2022-06-26 0:30	210600	8.376	-131.202	20.484	268.701	294.068	0.141	13.185	20.484	8.718
2022-06-26 0:45	211500	8.380	-131.364	20.438	268.900	294.564	0.142	13.694	20.438	8.681
2022-06-26 1:00	212400	8.375	-131.075	20.392	269.015	294.979	0.142	14.225	20.392	8.646
2022-06-26 1:15	213300	8.370	-130.782	20.343	268.838	295.088	0.142	15.289	20.343	8.607
2022-06-26 1:30	214200	8.370	-130.782	20.291	268.684	295.237	0.142	13.061	20.291	8.576
2022-06-26 1:45	215100	8.370	-130.706	20.229	268.312	295.214	0.142	13.437	20.229	8.544
2022-06-26 2:00	216000	8.374	-130.911	20.172	268.009	295.233	0.142	13.457	20.172	8.506
2022-06-26 2:15	216900	8.365	-130.417	20.109	267.341	294.891	0.142	13.606	20.109	8.474
2022-06-26 2:30	217800	8.366	-130.434	20.044	266.711	294.596	0.142	11.572	20.044	8.445
2022-06-26 2:45	218700	8.370	-130.637	19.974	265.864	294.094	0.141	11.979	19.974	8.400
2022-06-26 3:00	219600	8.373	-130.742	19.912	265.168	293.712	0.141	13.252	19.912	8.377
2022-06-26 3:15	220500	8.365	-130.272	19.850	264.254	293.082	0.141	12.598	19.850	8.344
2022-06-26 3:30	221400	8.361	-130.017	19.787	263.680	292.840	0.141	11.491	19.787	8.306
2022-06-26 3:45	222300	8.360	-129.919	19.724	262.664	292.101	0.140	12.463	19.724	8.282
2022-06-26 4:00	223200	8.371	-130.525	19.664	262.039	291.776	0.140	12.244	19.664	8.237
2022-06-26 4:15	224100	8.352	-129.461	19.604	261.150	291.159	0.140	13.413	19.604	8.208
2022-06-26 4:30	225000	8.356	-129.621	19.544	260.432	290.728	0.140	13.144	19.544	8.177
2022-06-26 4:45	225900	8.352	-129.399	19.482	259.692	290.288	0.139	14.153	19.482	8.147
2022-06-26 5:00	226800	8.357	-129.635	19.417	258.954	289.866	0.139	12.805	19.417	8.118
2022-06-26 5:15	227700	8.347	-129.070	19.358	258.278	289.474	0.139	11.904	19.358	8.092
2022-06-26 5:30	228600	8.346	-128.982	19.287	257.517	289.061	0.139	11.188	19.287	8.068
2022-06-26 5:45	229500	8.342	-128.677	19.218	256.872	288.759	0.139	12.397	19.218	8.035
2022-06-26 6:00	230400	8.342	-128.686	19.148	256.401	288.665	0.139	14.148	19.148	8.017
2022-06-26 6:15	231300	8.336	-128.305	19.082	255.666	288.246	0.138	11.376	19.082	7.985
2022-06-26 6:30	232200	8.329	-127.890	19.011	255.005	287.944	0.138	11.722	19.011	7.977
2022-06-26 6:45	233100	8.326	-127.687	18.944	254.428	287.705	0.138	12.668	18.944	7.960
2022-06-26 7:00	234000	8.327	-127.721	18.880	253.944	287.559	0.138	12.789	18.880	7.947
2022-06-26 7:15	234900	8.321	-127.373	18.816	253.284	287.205	0.138	14.041	18.816	7.932
2022-06-26 7:30	235800	8.319	-127.189	18.760	252.793	287.000	0.138	13.954	18.760	7.913
2022-06-26 7:45	236700	8.314	-126.894	18.705	252.304	286.784	0.138	12.762	18.705	7.910

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-26 8:00	237600	8.315	-126.934	18.653	252.013	286.780	0.138	13.849	18.653	7.904
2022-06-26 8:15	238500	8.305	-126.374	18.599	251.471	286.497	0.138	14.683	18.599	7.895
2022-06-26 8:30	239400	8.306	-126.381	18.551	251.017	286.283	0.137	14.375	18.551	7.889
2022-06-26 8:45	240300	8.306	-126.374	18.510	250.648	286.117	0.137	13.677	18.510	7.890
2022-06-26 9:00	241200	8.306	-126.343	18.474	250.327	285.970	0.137	13.538	18.474	7.888
2022-06-26 9:15	242100	8.301	-126.069	18.444	249.954	285.737	0.137	13.200	18.444	7.886
2022-06-26 9:30	243000	8.294	-125.635	18.426	249.793	285.664	0.137	14.590	18.426	7.889
2022-06-26 9:45	243900	8.294	-125.666	18.405	249.552	285.518	0.137	14.717	18.405	7.885
2022-06-26 10:00	244800	8.300	-125.976	18.409	249.589	285.534	0.137	14.827	18.409	7.900
2022-06-26 10:15	245700	8.294	-125.632	18.408	249.386	285.310	0.137	13.897	18.408	7.902
2022-06-26 10:30	246600	8.291	-125.496	18.429	249.466	285.271	0.137	14.377	18.429	7.909
2022-06-26 10:45	247500	8.289	-125.372	18.454	249.417	285.057	0.137	15.132	18.454	7.933
2022-06-26 11:00	248400	8.293	-125.611	18.486	249.522	284.979	0.137	13.863	18.486	7.936
2022-06-26 11:15	249300	8.284	-125.151	18.521	249.639	284.897	0.137	13.984	18.521	7.948
2022-06-26 11:30	250200	8.282	-125.027	18.559	249.773	284.810	0.137	14.105	18.559	7.958
2022-06-26 11:45	251100	8.281	-124.998	18.608	249.927	284.682	0.137	12.534	18.608	7.963
2022-06-26 12:00	252000	8.282	-125.082	18.653	250.177	284.689	0.137	13.757	18.653	7.982
2022-06-26 12:15	252900	8.272	-124.514	18.703	250.331	284.554	0.137	13.775	18.703	7.990
2022-06-26 12:30	253800	8.263	-124.042	18.765	250.559	284.431	0.137	12.491	18.765	8.001
2022-06-26 12:45	254700	8.265	-124.209	18.817	250.734	284.310	0.136	13.121	18.817	8.024
2022-06-26 13:00	255600	8.269	-124.435	18.881	251.006	284.224	0.136	12.982	18.881	8.035
2022-06-26 13:15	256500	8.257	-123.787	18.946	251.194	284.037	0.136	12.675	18.946	8.062
2022-06-26 13:30	257400	8.256	-123.789	19.024	251.512	283.922	0.136	13.337	19.024	8.088
2022-06-26 13:45	258300	8.245	-123.179	19.101	251.798	283.770	0.136	11.722	19.101	8.107
2022-06-26 14:00	259200	8.260	-124.083	19.179	252.367	283.935	0.136	13.026	19.179	8.132
2022-06-26 14:15	260100	8.254	-123.780	19.264	252.637	283.717	0.136	12.024	19.264	8.165
2022-06-26 14:30	261000	8.251	-123.658	19.364	253.126	283.661	0.136	12.341	19.364	8.198
2022-06-26 14:45	261900	8.244	-123.265	19.440	253.390	283.494	0.136	11.995	19.440	8.219
2022-06-26 15:00	262800	8.265	-124.516	19.563	254.028	283.466	0.136	11.185	19.563	8.256
2022-06-26 15:15	263700	8.260	-124.254	19.661	254.356	283.238	0.136	12.198	19.661	8.307
2022-06-26 15:30	264600	8.262	-124.390	19.735	254.627	283.097	0.136	12.756	19.735	8.330
2022-06-26 15:45	265500	8.264	-124.574	19.805	254.835	282.907	0.136	15.277	19.805	8.350
2022-06-26 16:00	266400	8.287	-125.895	19.889	255.243	282.854	0.136	12.223	19.889	8.404
2022-06-26 16:15	267300	8.270	-124.943	19.905	255.141	282.648	0.136	12.545	19.905	8.410
2022-06-26 16:30	268200	8.283	-125.654	19.900	255.058	282.582	0.136	11.823	19.900	8.431
2022-06-26 16:45	269100	8.280	-125.537	19.953	255.174	282.396	0.136	13.406	19.953	8.467
2022-06-26 17:00	270000	8.295	-126.412	20.070	255.674	282.251	0.135	13.287	20.070	8.526
2022-06-26 17:15	270900	8.295	-126.479	20.181	256.083	282.046	0.135	12.586	20.181	8.563
2022-06-26 17:30	271800	8.306	-127.096	20.245	256.343	281.948	0.135	12.779	20.245	8.577
2022-06-26 17:45	272700	8.305	-127.110	20.316	256.642	281.856	0.135	12.949	20.316	8.600
2022-06-26 18:00	273600	8.316	-127.780	20.404	257.101	281.845	0.135	12.338	20.404	8.623
2022-06-26 18:15	274500	8.315	-127.714	20.489	257.379	281.644	0.135	12.758	20.489	8.649
2022-06-26 18:30	275400	8.312	-127.614	20.581	257.696	281.453	0.135	12.585	20.581	8.674
2022-06-26 18:45	276300	8.317	-127.938	20.676	258.148	281.389	0.135	12.222	20.676	8.682

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-26 19:00	277200	8.332	-128.820	20.758	258.515	281.309	0.135	12.710	20.758	8.706
2022-06-26 19:15	278100	8.336	-129.118	20.881	258.990	281.103	0.135	12.274	20.881	8.741
2022-06-26 19:30	279000	8.336	-129.116	20.950	259.303	281.043	0.135	13.146	20.950	8.736
2022-06-26 19:45	279900	8.336	-129.132	21.022	259.542	280.883	0.135	13.422	21.022	8.745
2022-06-26 20:00	280800	8.349	-129.938	21.099	260.011	280.945	0.135	12.085	21.099	8.741
2022-06-26 20:15	281700	8.341	-129.502	21.160	260.086	280.669	0.135	11.091	21.160	8.749
2022-06-26 20:30	282600	8.347	-129.890	21.217	260.281	280.551	0.135	14.156	21.217	8.753
2022-06-26 20:45	283500	8.339	-129.447	21.258	260.424	280.468	0.135	12.145	21.258	8.744
2022-06-26 21:00	284400	8.355	-130.341	21.294	260.518	280.366	0.135	11.838	21.294	8.725
2022-06-26 21:15	285300	8.347	-129.933	21.314	260.513	280.244	0.135	11.020	21.314	8.710
2022-06-26 21:30	286200	8.356	-130.408	21.334	260.519	280.134	0.134	12.326	21.334	8.701
2022-06-26 21:45	287100	8.362	-130.768	21.348	260.544	280.081	0.134	14.161	21.348	8.685
2022-06-26 22:00	288000	8.361	-130.723	21.352	260.506	280.019	0.134	12.298	21.352	8.669
2022-06-26 22:15	288900	8.350	-130.095	21.350	260.378	279.892	0.134	14.400	21.350	8.647
2022-06-26 22:30	289800	8.362	-130.794	21.341	260.249	279.804	0.134	12.708	21.341	8.633
2022-06-26 22:45	290700	8.353	-130.270	21.328	260.058	279.675	0.134	12.054	21.328	8.597
2022-06-26 23:00	291600	8.367	-131.025	21.304	259.825	279.558	0.134	12.072	21.304	8.573
2022-06-26 23:15	292500	8.363	-130.796	21.276	259.563	279.442	0.134	12.673	21.276	8.538
2022-06-26 23:30	293400	8.356	-130.401	21.240	259.307	279.368	0.134	12.263	21.240	8.512
2022-06-26 23:45	294300	8.358	-130.510	21.202	259.046	279.310	0.134	13.870	21.202	8.491
2022-06-27 0:00	295200	8.370	-131.147	21.160	258.785	279.266	0.134	15.535	21.160	8.461
2022-06-27 0:15	296100	8.360	-130.558	21.107	258.290	279.040	0.134	10.932	21.107	8.437
2022-06-27 0:30	297000	8.365	-130.823	21.054	257.958	278.982	0.134	12.203	21.054	8.413
2022-06-27 0:45	297900	8.367	-130.894	21.003	257.572	278.862	0.134	11.520	21.003	8.389
2022-06-27 1:00	298800	8.369	-131.009	20.944	257.251	278.856	0.134	10.397	20.944	8.360
2022-06-27 1:15	299700	8.364	-130.682	20.889	256.862	278.752	0.134	11.208	20.889	8.339
2022-06-27 1:30	300600	8.361	-130.506	20.833	256.526	278.710	0.134	10.639	20.833	8.312
2022-06-27 1:45	301500	8.360	-130.422	20.775	256.138	278.621	0.134	12.259	20.775	8.282
2022-06-27 2:00	302400	8.368	-130.861	20.716	255.858	278.662	0.134	12.018	20.716	8.254
2022-06-27 2:15	303300	8.356	-130.103	20.655	255.449	278.566	0.134	10.672	20.655	8.224
2022-06-27 2:30	304200	8.354	-130.000	20.605	255.137	278.516	0.134	10.149	20.605	8.201
2022-06-27 2:45	305100	8.357	-130.155	20.557	254.870	278.504	0.134	10.732	20.557	8.170
2022-06-27 3:00	306000	8.365	-130.589	20.513	254.596	278.460	0.134	10.320	20.513	8.142
2022-06-27 3:15	306900	8.354	-129.924	20.461	254.175	278.303	0.134	9.435	20.461	8.115
2022-06-27 3:30	307800	8.355	-129.974	20.409	253.864	278.262	0.134	10.709	20.409	8.080
2022-06-27 3:45	308700	8.351	-129.688	20.360	253.594	278.255	0.134	11.426	20.360	8.050
2022-06-27 4:00	309600	8.365	-130.472	20.311	253.497	278.434	0.134	10.303	20.311	8.026
2022-06-27 4:15	310500	8.353	-129.776	20.264	253.192	278.374	0.134	9.904	20.264	7.995
2022-06-27 4:30	311400	8.348	-129.497	20.211	252.908	278.369	0.134	9.604	20.211	7.972
2022-06-27 4:45	312300	8.347	-129.406	20.156	252.656	278.418	0.134	10.919	20.156	7.936
2022-06-27 5:00	313200	8.358	-130.024	20.101	252.383	278.436	0.134	10.648	20.101	7.912
2022-06-27 5:15	314100	8.345	-129.218	20.045	252.145	278.503	0.134	12.306	20.045	7.888
2022-06-27 5:30	315000	8.344	-129.154	19.991	251.847	278.493	0.134	11.189	19.991	7.865
2022-06-27 5:45	315900	8.346	-129.230	19.924	251.553	278.561	0.134	10.432	19.924	7.836

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-27 6:00	316800	8.351	-129.468	19.866	251.428	278.762	0.134	12.169	19.866	7.819
2022-06-27 6:15	317700	8.340	-128.839	19.810	251.057	278.680	0.134	13.212	19.810	7.796
2022-06-27 6:30	318600	8.335	-128.551	19.763	250.901	278.790	0.134	11.604	19.763	7.783
2022-06-27 6:45	319500	8.331	-128.314	19.724	250.790	278.897	0.134	11.669	19.724	7.764
2022-06-27 7:00	320400	8.336	-128.541	19.675	250.647	279.028	0.134	11.108	19.675	7.748
2022-06-27 7:15	321300	8.325	-127.926	19.623	250.375	279.032	0.134	10.686	19.623	7.740
2022-06-27 7:30	322200	8.323	-127.783	19.571	250.134	279.069	0.134	12.315	19.571	7.718
2022-06-27 7:45	323100	8.323	-127.788	19.527	250.072	279.266	0.134	10.239	19.527	7.710
2022-06-27 8:00	324000	8.324	-127.807	19.487	250.070	279.503	0.134	13.158	19.487	7.702
2022-06-27 8:15	324900	8.314	-127.196	19.437	249.840	279.545	0.134	13.398	19.437	7.691
2022-06-27 8:30	325800	8.308	-126.853	19.394	249.710	279.654	0.134	15.211	19.394	7.679
2022-06-27 8:45	326700	8.306	-126.722	19.357	249.622	279.778	0.134	13.971	19.357	7.680
2022-06-27 9:00	327600	8.313	-127.094	19.330	249.617	279.930	0.134	15.151	19.330	7.675
2022-06-27 9:15	328500	8.304	-126.622	19.301	249.546	280.025	0.134	14.348	19.301	7.677
2022-06-27 9:30	329400	8.301	-126.405	19.274	249.501	280.140	0.134	13.619	19.274	7.680
2022-06-27 9:45	330300	8.301	-126.419	19.254	249.513	280.270	0.134	13.937	19.254	7.676
2022-06-27 10:00	331200	8.303	-126.526	19.265	249.810	280.538	0.135	12.788	19.265	7.678
2022-06-27 10:15	332100	8.289	-125.744	19.272	249.932	280.634	0.135	14.130	19.272	7.686
2022-06-27 10:30	333000	8.285	-125.513	19.276	250.069	280.767	0.135	13.927	19.276	7.692
2022-06-27 10:45	333900	8.289	-125.725	19.294	250.339	280.960	0.135	13.183	19.294	7.700
2022-06-27 11:00	334800	8.293	-125.973	19.308	250.540	281.103	0.135	13.617	19.308	7.710
2022-06-27 11:15	335700	8.280	-125.268	19.347	250.790	281.149	0.135	12.418	19.347	7.712
2022-06-27 11:30	336600	8.281	-125.315	19.374	251.088	281.316	0.135	11.831	19.374	7.737
2022-06-27 11:45	337500	8.276	-125.072	19.424	251.494	281.472	0.135	11.560	19.424	7.731
2022-06-27 12:00	338400	8.284	-125.544	19.415	251.724	281.781	0.135	12.689	19.415	7.743
2022-06-27 12:15	339300	8.271	-124.791	19.487	252.171	281.850	0.135	12.838	19.487	7.759
2022-06-27 12:30	340200	8.269	-124.767	19.575	252.774	281.994	0.135	12.376	19.575	7.776
2022-06-27 12:45	341100	8.268	-124.707	19.648	253.313	282.156	0.135	12.929	19.648	7.784
2022-06-27 13:00	342000	8.274	-125.072	19.683	253.674	282.349	0.136	12.658	19.683	7.796
2022-06-27 13:15	342900	8.261	-124.362	19.758	254.125	282.400	0.136	13.022	19.758	7.813
2022-06-27 13:30	343800	8.266	-124.669	19.805	254.452	282.484	0.136	12.968	19.805	7.834
2022-06-27 13:45	344700	8.261	-124.397	19.823	254.760	282.717	0.136	10.962	19.823	7.843
2022-06-27 14:00	345600	8.270	-124.893	19.852	255.068	282.885	0.136	14.074	19.852	7.871
2022-06-27 14:15	346500	8.255	-124.063	19.858	255.158	282.946	0.136	11.747	19.858	7.880
2022-06-27 14:30	347400	8.259	-124.321	19.907	255.466	282.997	0.136	13.066	19.907	7.915
2022-06-27 14:45	348300	8.263	-124.578	19.932	255.664	283.065	0.136	12.716	19.932	7.945
2022-06-27 15:00	349200	8.268	-124.872	19.952	255.899	283.206	0.136	11.965	19.952	7.953
2022-06-27 15:15	350100	8.267	-124.781	19.972	255.898	283.084	0.136	12.096	19.972	7.998
2022-06-27 15:30	351000	8.268	-124.876	20.050	256.405	283.178	0.136	13.019	20.050	8.034
2022-06-27 15:45	351900	8.268	-124.874	20.074	256.575	283.223	0.136	11.473	20.074	8.064
2022-06-27 16:00	352800	8.279	-125.525	20.119	257.024	283.451	0.136	10.533	20.119	8.087
2022-06-27 16:15	353700	8.277	-125.432	20.186	257.378	283.440	0.136	13.726	20.186	8.148
2022-06-27 16:30	354600	8.277	-125.494	20.211	257.556	283.486	0.136	12.141	20.211	8.151
2022-06-27 16:45	355500	8.280	-125.666	20.249	257.805	283.535	0.136	11.670	20.249	8.198

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-27 17:00	356400	8.293	-126.398	20.305	258.194	283.630	0.136	12.113	20.305	8.222
2022-06-27 17:15	357300	8.289	-126.216	20.389	258.635	283.611	0.136	11.726	20.389	8.280
2022-06-27 17:30	358200	8.292	-126.402	20.410	258.799	283.670	0.136	12.399	20.410	8.291
2022-06-27 17:45	359100	8.293	-126.476	20.460	259.095	283.695	0.136	13.168	20.460	8.328
2022-06-27 18:00	360000	8.307	-127.275	20.492	259.404	283.842	0.136	13.284	20.492	8.350
2022-06-27 18:15	360900	8.298	-126.791	20.523	259.486	283.749	0.136	11.293	20.523	8.373
2022-06-27 18:30	361800	8.302	-127.018	20.545	259.624	283.772	0.136	14.923	20.545	8.398
2022-06-27 18:45	362700	8.301	-126.967	20.576	259.837	283.820	0.136	11.808	20.576	8.419
2022-06-27 19:00	363600	8.317	-127.916	20.623	260.159	283.891	0.136	11.799	20.623	8.445
2022-06-27 19:15	364500	8.319	-128.031	20.673	260.435	283.899	0.136	11.621	20.673	8.470
2022-06-27 19:30	365400	8.319	-128.083	20.743	260.914	284.003	0.136	12.888	20.743	8.509
2022-06-27 19:45	366300	8.321	-128.226	20.796	261.306	284.118	0.136	11.396	20.796	8.527
2022-06-27 20:00	367200	8.338	-129.180	20.850	261.923	284.470	0.137	13.719	20.850	8.545
2022-06-27 20:15	368100	8.327	-128.589	20.895	262.330	284.650	0.137	11.420	20.895	8.550
2022-06-27 20:30	369000	8.329	-128.715	20.924	262.816	285.001	0.137	11.932	20.924	8.550
2022-06-27 20:45	369900	8.332	-128.884	20.939	263.258	285.398	0.137	11.951	20.939	8.550
2022-06-27 21:00	370800	8.348	-129.788	20.958	263.787	285.858	0.137	11.801	20.958	8.558
2022-06-27 21:15	371700	8.343	-129.519	20.973	264.190	286.205	0.137	12.004	20.973	8.565
2022-06-27 21:30	372600	8.345	-129.628	20.971	264.670	286.737	0.138	13.008	20.971	8.562
2022-06-27 21:45	373500	8.339	-129.325	20.965	265.112	287.249	0.138	12.218	20.965	8.561
2022-06-27 22:00	374400	8.355	-130.224	20.953	265.779	288.046	0.138	14.957	20.953	8.561
2022-06-27 22:15	375300	8.347	-129.721	20.933	266.063	288.472	0.139	11.583	20.933	8.547
2022-06-27 22:30	376200	8.343	-129.488	20.909	266.422	289.007	0.139	12.135	20.909	8.542
2022-06-27 22:45	377100	8.347	-129.700	20.881	266.717	289.492	0.139	13.264	20.881	8.522
2022-06-27 23:00	378000	8.360	-130.436	20.853	267.006	289.976	0.139	12.793	20.853	8.514
2022-06-27 23:15	378900	8.352	-129.950	20.820	267.376	290.577	0.140	12.374	20.820	8.502
2022-06-27 23:30	379800	8.352	-129.938	20.786	267.745	291.183	0.140	11.955	20.786	8.488
2022-06-27 23:45	380700	8.350	-129.850	20.751	268.087	291.765	0.140	11.911	20.751	8.480
2022-06-28 0:00	381600	8.364	-130.632	20.723	268.426	292.302	0.140	10.639	20.723	8.464
2022-06-28 0:15	382500	8.348	-129.688	20.693	268.642	292.720	0.141	12.198	20.693	8.447
2022-06-28 0:30	383400	8.354	-130.029	20.670	268.916	293.160	0.141	11.852	20.670	8.439
2022-06-28 0:45	384300	8.352	-129.867	20.637	269.031	293.488	0.141	11.125	20.637	8.422
2022-06-28 1:00	385200	8.368	-130.785	20.603	268.992	293.655	0.141	10.946	20.603	8.404
2022-06-28 1:15	386100	8.356	-130.069	20.571	268.968	293.822	0.141	10.438	20.571	8.387
2022-06-28 1:30	387000	8.357	-130.124	20.541	268.782	293.804	0.141	10.826	20.541	8.369
2022-06-28 1:45	387900	8.355	-129.976	20.500	268.523	293.772	0.141	11.590	20.500	8.336
2022-06-28 2:00	388800	8.367	-130.646	20.462	268.259	293.718	0.141	11.270	20.462	8.309
2022-06-28 2:15	389700	8.361	-130.301	20.414	267.670	293.367	0.141	12.227	20.414	8.276
2022-06-28 2:30	390600	8.353	-129.838	20.372	267.225	293.134	0.141	10.767	20.372	8.249
2022-06-28 2:45	391500	8.352	-129.764	20.317	266.638	292.831	0.141	10.625	20.317	8.220
2022-06-28 3:00	392400	8.355	-129.900	20.263	266.088	292.560	0.141	11.023	20.263	8.195
2022-06-28 3:15	393300	8.349	-129.523	20.208	265.428	292.168	0.140	11.653	20.208	8.167
2022-06-28 3:30	394200	8.347	-129.380	20.146	264.806	291.867	0.140	13.758	20.146	8.145
2022-06-28 3:45	395100	8.351	-129.607	20.078	264.121	291.529	0.140	10.148	20.078	8.113

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-28 4:00	396000	8.355	-129.759	20.013	263.602	291.355	0.140	10.702	20.013	8.099
2022-06-28 4:15	396900	8.342	-129.027	19.948	262.916	290.994	0.140	9.954	19.948	8.068
2022-06-28 4:30	397800	8.338	-128.756	19.879	262.284	290.721	0.140	10.779	19.879	8.050
2022-06-28 4:45	398700	8.334	-128.536	19.811	261.619	290.402	0.139	11.076	19.811	8.014
2022-06-28 5:00	399600	8.346	-129.151	19.746	261.103	290.228	0.139	9.684	19.746	7.999
2022-06-28 5:15	400500	8.335	-128.527	19.687	260.420	289.833	0.139	10.585	19.687	7.976
2022-06-28 5:30	401400	8.331	-128.291	19.627	259.864	289.582	0.139	10.229	19.627	7.943
2022-06-28 5:45	402300	8.328	-128.076	19.568	259.368	289.394	0.139	10.727	19.568	7.924
2022-06-28 6:00	403200	8.335	-128.422	19.515	259.119	289.439	0.139	10.064	19.515	7.892
2022-06-28 6:15	404100	8.317	-127.420	19.451	258.561	289.211	0.139	11.753	19.451	7.873
2022-06-28 6:30	405000	8.316	-127.320	19.397	258.129	289.066	0.139	10.455	19.397	7.845
2022-06-28 6:45	405900	8.312	-127.056	19.342	257.690	288.910	0.139	9.664	19.342	7.828
2022-06-28 7:00	406800	8.320	-127.482	19.290	257.268	288.763	0.139	12.815	19.290	7.810
2022-06-28 7:15	407700	8.307	-126.767	19.246	256.981	288.709	0.139	11.100	19.246	7.795
2022-06-28 7:30	408600	8.306	-126.657	19.204	256.651	288.602	0.139	14.905	19.204	7.770
2022-06-28 7:45	409500	8.302	-126.426	19.165	256.405	288.566	0.139	11.740	19.165	7.759
2022-06-28 8:00	410400	8.312	-126.982	19.123	256.252	288.655	0.139	12.593	19.123	7.746
2022-06-28 8:15	411300	8.299	-126.202	19.090	255.921	288.487	0.139	10.712	19.090	7.730
2022-06-28 8:30	412200	8.295	-125.957	19.054	255.736	288.501	0.139	13.700	19.054	7.713
2022-06-28 8:45	413100	8.291	-125.728	19.017	255.492	288.453	0.138	13.403	19.017	7.706
2022-06-28 9:00	414000	8.300	-126.252	18.992	255.438	288.552	0.139	14.805	18.992	7.694
2022-06-28 9:15	414900	8.286	-125.463	18.965	255.209	288.457	0.138	14.182	18.965	7.686
2022-06-28 9:30	415800	8.286	-125.453	18.957	255.196	288.492	0.139	15.316	18.957	7.681
2022-06-28 9:45	416700	8.282	-125.227	18.956	255.246	288.558	0.139	15.057	18.956	7.678
2022-06-28 10:00	417600	8.293	-125.854	18.951	255.387	288.746	0.139	13.738	18.951	7.683
2022-06-28 10:15	418500	8.280	-125.070	18.953	255.365	288.712	0.139	13.736	18.953	7.690
2022-06-28 10:30	419400	8.282	-125.206	18.934	255.341	288.800	0.139	14.542	18.934	7.682
2022-06-28 10:45	420300	8.281	-125.129	18.933	255.443	288.923	0.139	14.040	18.933	7.687
2022-06-28 11:00	421200	8.286	-125.408	18.918	255.405	288.975	0.139	14.265	18.918	7.683
2022-06-28 11:15	422100	8.275	-124.807	18.909	255.419	289.046	0.139	14.330	18.909	7.683
2022-06-28 11:30	423000	8.276	-124.834	18.897	255.454	289.162	0.139	12.964	18.897	7.687
2022-06-28 11:45	423900	8.273	-124.705	18.901	255.560	289.254	0.139	13.729	18.901	7.699
2022-06-28 12:00	424800	8.282	-125.229	18.937	255.967	289.494	0.139	12.123	18.937	7.721
2022-06-28 12:15	425700	8.272	-124.655	18.938	255.985	289.506	0.139	12.400	18.938	7.724
2022-06-28 12:30	426600	8.267	-124.371	18.914	255.961	289.629	0.139	13.914	18.914	7.718
2022-06-28 12:45	427500	8.267	-124.366	18.901	256.058	289.818	0.139	12.258	18.901	7.731
2022-06-28 13:00	428400	8.276	-124.879	18.907	256.235	289.982	0.139	13.131	18.907	7.737
2022-06-28 13:15	429300	8.271	-124.590	18.903	256.252	290.025	0.139	12.050	18.903	7.750
2022-06-28 13:30	430200	8.273	-124.655	18.892	256.349	290.205	0.139	14.826	18.892	7.746
2022-06-28 13:45	431100	8.264	-124.133	18.864	256.271	290.295	0.139	11.226	18.864	7.751
2022-06-28 14:00	432000	8.270	-124.466	18.841	256.423	290.607	0.140	12.971	18.841	7.758
2022-06-28 14:15	432900	8.255	-123.651	18.821	256.396	290.707	0.140	11.814	18.821	7.772
2022-06-28 14:30	433800	8.257	-123.749	18.812	256.452	290.827	0.140	11.683	18.812	7.789
2022-06-28 14:45	434700	8.255	-123.634	18.796	256.512	290.992	0.140	11.780	18.796	7.807

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-28 15:00	435600	8.267	-124.309	18.781	256.555	291.141	0.140	12.536	18.781	7.825
2022-06-28 15:15	436500	8.257	-123.749	18.772	256.564	291.205	0.140	11.674	18.772	7.850
2022-06-28 15:30	437400	8.265	-124.154	18.764	256.617	291.313	0.140	11.848	18.764	7.874
2022-06-28 15:45	438300	8.262	-124.023	18.757	256.728	291.488	0.140	11.066	18.757	7.907
2022-06-28 16:00	439200	8.279	-124.962	18.748	256.938	291.784	0.140	11.750	18.748	7.929
2022-06-28 16:15	440100	8.271	-124.526	18.742	256.898	291.775	0.140	10.812	18.742	7.953
2022-06-28 16:30	441000	8.274	-124.660	18.746	257.042	291.908	0.140	13.299	18.746	7.988
2022-06-28 16:45	441900	8.272	-124.543	18.743	257.120	292.016	0.140	11.715	18.743	8.006
2022-06-28 17:00	442800	8.281	-125.051	18.743	257.277	292.199	0.140	13.606	18.743	8.027
2022-06-28 17:15	443700	8.278	-124.898	18.742	257.204	292.120	0.140	11.208	18.742	8.051
2022-06-28 17:30	444600	8.281	-125.039	18.750	257.144	292.000	0.140	11.604	18.750	8.091
2022-06-28 17:45	445500	8.280	-125.024	18.762	257.477	292.306	0.140	11.300	18.762	8.114
2022-06-28 18:00	446400	8.295	-125.885	18.769	257.822	292.652	0.141	12.501	18.769	8.145
2022-06-28 18:15	447300	8.290	-125.566	18.778	257.868	292.648	0.141	10.581	18.778	8.171
2022-06-28 18:30	448200	8.290	-125.606	18.789	258.071	292.809	0.141	11.178	18.789	8.198
2022-06-28 18:45	449100	8.299	-126.073	18.802	258.325	293.013	0.141	10.216	18.802	8.232
2022-06-28 19:00	450000	8.307	-126.543	18.811	258.645	293.318	0.141	11.930	18.811	8.252
2022-06-28 19:15	450900	8.303	-126.352	18.815	258.989	293.684	0.141	10.064	18.815	8.274
2022-06-28 19:30	451800	8.306	-126.498	18.817	259.314	294.037	0.141	10.607	18.817	8.288
2022-06-28 19:45	452700	8.306	-126.481	18.819	259.877	294.664	0.142	11.393	18.819	8.304
2022-06-28 20:00	453600	8.316	-127.084	18.821	260.556	295.419	0.142	11.104	18.821	8.321
2022-06-28 20:15	454500	8.305	-126.436	18.823	261.122	296.048	0.142	10.793	18.823	8.331
2022-06-28 20:30	455400	8.308	-126.631	18.819	261.825	296.875	0.143	13.050	18.819	8.329
2022-06-28 20:45	456300	8.308	-126.626	18.814	262.496	297.668	0.143	10.890	18.814	8.339
2022-06-28 21:00	457200	8.315	-127.015	18.805	263.202	298.527	0.143	10.596	18.805	8.341
2022-06-28 21:15	458100	8.306	-126.512	18.798	263.947	299.415	0.144	11.144	18.798	8.342
2022-06-28 21:30	459000	8.310	-126.739	18.790	264.896	300.542	0.144	10.914	18.790	8.346
2022-06-28 21:45	459900	8.312	-126.824	18.781	265.717	301.536	0.145	10.199	18.781	8.346
2022-06-28 22:00	460800	8.318	-127.137	18.773	266.576	302.561	0.145	10.166	18.773	8.340
2022-06-28 22:15	461700	8.307	-126.548	18.761	267.233	303.384	0.146	10.953	18.761	8.333
2022-06-28 22:30	462600	8.307	-126.507	18.747	268.127	304.495	0.146	9.984	18.747	8.329
2022-06-28 22:45	463500	8.307	-126.531	18.733	268.980	305.554	0.147	10.197	18.733	8.316
2022-06-28 23:00	464400	8.308	-126.572	18.718	269.917	306.717	0.147	10.920	18.718	8.304
2022-06-28 23:15	465300	8.299	-126.078	18.703	270.350	307.313	0.148	11.677	18.703	8.287
2022-06-28 23:30	466200	8.295	-125.830	18.683	271.117	308.315	0.148	12.989	18.683	8.265
2022-06-28 23:45	467100	8.291	-125.592	18.663	271.829	309.263	0.149	16.795	18.663	8.246
2022-06-29 0:00	468000	8.292	-125.618	18.645	272.526	310.177	0.149	10.279	18.645	8.235
2022-06-29 0:15	468900	8.284	-125.158	18.620	272.933	310.804	0.149	11.389	18.620	8.218
2022-06-29 0:30	469800	8.279	-124.907	18.594	273.537	311.674	0.150	10.159	18.594	8.199
2022-06-29 0:45	470700	8.275	-124.648	18.568	273.977	312.348	0.150	10.228	18.568	8.179
2022-06-29 1:00	471600	8.275	-124.633	18.537	274.514	313.176	0.151	12.194	18.537	8.169
2022-06-29 1:15	472500	8.262	-123.873	18.510	274.846	313.736	0.151	10.340	18.510	8.156
2022-06-29 1:30	473400	8.261	-123.854	18.481	275.121	314.247	0.151	10.048	18.481	8.139
2022-06-29 1:45	474300	8.255	-123.496	18.455	275.376	314.720	0.151	13.398	18.455	8.129

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-29 2:00	475200	8.266	-124.102	18.430	275.591	315.138	0.152	9.417	18.430	8.117
2022-06-29 2:15	476100	8.246	-122.974	18.408	275.516	315.203	0.152	9.884	18.408	8.101
2022-06-29 2:30	477000	8.246	-122.948	18.384	275.397	315.231	0.152	11.732	18.384	8.086
2022-06-29 2:45	477900	8.244	-122.800	18.363	275.157	315.104	0.152	9.361	18.363	8.069
2022-06-29 3:00	478800	8.252	-123.281	18.334	274.851	314.954	0.151	10.855	18.334	8.057
2022-06-29 3:15	479700	8.242	-122.688	18.305	274.276	314.489	0.151	9.611	18.305	8.042
2022-06-29 3:30	480600	8.238	-122.476	18.278	273.597	313.901	0.151	8.393	18.278	8.030
2022-06-29 3:45	481500	8.236	-122.297	18.249	273.131	313.567	0.151	8.686	18.249	8.008
2022-06-29 4:00	482400	8.239	-122.485	18.217	272.532	313.093	0.151	9.840	18.217	7.991
2022-06-29 4:15	483300	8.227	-121.765	18.183	271.714	312.388	0.150	10.096	18.183	7.980
2022-06-29 4:30	484200	8.224	-121.605	18.153	270.978	311.744	0.150	9.386	18.153	7.973
2022-06-29 4:45	485100	8.219	-121.324	18.121	270.268	311.151	0.150	9.844	18.121	7.951
2022-06-29 5:00	486000	8.223	-121.515	18.088	269.650	310.663	0.149	9.649	18.088	7.936
2022-06-29 5:15	486900	8.213	-120.928	18.051	268.667	309.785	0.149	9.647	18.051	7.916
2022-06-29 5:30	487800	8.210	-120.766	18.016	267.971	309.218	0.149	10.592	18.016	7.908
2022-06-29 5:45	488700	8.207	-120.561	17.981	267.182	308.546	0.148	12.879	17.981	7.896
2022-06-29 6:00	489600	8.209	-120.699	17.946	266.634	308.151	0.148	9.670	17.946	7.890
2022-06-29 6:15	490500	8.197	-119.979	17.915	265.817	307.419	0.148	13.416	17.915	7.883
2022-06-29 6:30	491400	8.197	-119.989	17.880	265.233	306.980	0.148	9.809	17.880	7.874
2022-06-29 6:45	492300	8.192	-119.700	17.841	264.472	306.362	0.147	9.310	17.841	7.863
2022-06-29 7:00	493200	8.197	-119.946	17.810	263.929	305.946	0.147	10.008	17.810	7.851
2022-06-29 7:15	494100	8.186	-119.331	17.781	263.327	305.442	0.147	10.342	17.781	7.848
2022-06-29 7:30	495000	8.187	-119.359	17.749	262.704	304.935	0.147	9.335	17.749	7.840
2022-06-29 7:45	495900	8.184	-119.162	17.724	262.188	304.508	0.146	10.102	17.724	7.840
2022-06-29 8:00	496800	8.190	-119.507	17.702	261.915	304.339	0.146	11.248	17.702	7.836
2022-06-29 8:15	497700	8.176	-118.742	17.679	261.316	303.800	0.146	9.242	17.679	7.835
2022-06-29 8:30	498600	8.177	-118.759	17.662	261.019	303.566	0.146	10.072	17.662	7.825
2022-06-29 8:45	499500	8.172	-118.494	17.637	260.588	303.236	0.146	11.488	17.637	7.833
2022-06-29 9:00	500400	8.178	-118.799	17.616	260.238	302.966	0.146	11.372	17.616	7.822
2022-06-29 9:15	501300	8.168	-118.244	17.607	259.889	302.619	0.145	11.413	17.607	7.815
2022-06-29 9:30	502200	8.167	-118.198	17.603	259.617	302.334	0.145	11.530	17.603	7.817
2022-06-29 9:45	503100	8.163	-117.950	17.616	259.569	302.189	0.145	11.008	17.616	7.818
2022-06-29 10:00	504000	8.173	-118.535	17.614	259.540	302.168	0.145	11.663	17.614	7.819
2022-06-29 10:15	504900	8.161	-117.834	17.622	259.301	301.836	0.145	11.318	17.622	7.828
2022-06-29 10:30	505800	8.157	-117.643	17.650	259.324	301.674	0.145	11.357	17.650	7.838
2022-06-29 10:45	506700	8.154	-117.483	17.685	259.391	301.520	0.145	12.868	17.685	7.845
2022-06-29 11:00	507600	8.165	-118.105	17.716	259.508	301.445	0.145	11.913	17.716	7.850
2022-06-29 11:15	508500	8.157	-117.712	17.761	259.555	301.199	0.145	11.310	17.761	7.855
2022-06-29 11:30	509400	8.158	-117.784	17.823	259.806	301.081	0.145	12.320	17.823	7.876
2022-06-29 11:45	510300	8.156	-117.674	17.884	260.166	301.090	0.145	12.005	17.884	7.875
2022-06-29 12:00	511200	8.167	-118.344	17.959	260.641	301.138	0.145	11.400	17.959	7.891
2022-06-29 12:15	512100	8.151	-117.466	18.029	260.904	300.978	0.145	12.216	18.029	7.894
2022-06-29 12:30	513000	8.150	-117.428	18.101	261.276	300.931	0.145	11.105	18.101	7.904
2022-06-29 12:45	513900	8.152	-117.559	18.185	261.793	300.969	0.145	13.973	18.185	7.918

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-29 13:00	514800	8.165	-118.310	18.239	262.057	300.917	0.145	12.361	18.239	7.923
2022-06-29 13:15	515700	8.150	-117.497	18.304	262.368	300.844	0.145	10.175	18.304	7.929
2022-06-29 13:30	516600	8.153	-117.736	18.398	262.895	300.832	0.145	11.172	18.398	7.957
2022-06-29 13:45	517500	8.150	-117.555	18.461	263.231	300.796	0.145	12.295	18.461	7.955
2022-06-29 14:00	518400	8.167	-118.585	18.570	263.992	300.951	0.145	11.114	18.570	7.983
2022-06-29 14:15	519300	8.155	-117.888	18.582	263.918	300.792	0.145	11.784	18.582	7.973
2022-06-29 14:30	520200	8.159	-118.182	18.658	264.348	300.783	0.145	12.069	18.658	8.008
2022-06-29 14:45	521100	8.158	-118.089	18.673	264.450	300.803	0.145	10.637	18.673	8.003
2022-06-29 15:00	522000	8.168	-118.713	18.753	264.959	300.854	0.145	11.355	18.753	8.060
2022-06-29 15:15	522900	8.155	-117.993	18.834	265.339	300.761	0.145	10.516	18.834	8.091
2022-06-29 15:30	523800	8.165	-118.616	18.892	265.708	300.799	0.145	11.246	18.892	8.116
2022-06-29 15:45	524700	8.168	-118.794	18.988	266.288	300.835	0.145	10.232	18.988	8.143
2022-06-29 16:00	525600	8.177	-119.269	18.943	266.176	300.998	0.145	10.943	18.943	8.127
2022-06-29 16:15	526500	8.171	-118.957	18.970	266.251	300.909	0.145	11.206	18.970	8.177
2022-06-29 16:30	527400	8.165	-118.616	18.992	266.476	301.019	0.145	10.809	18.992	8.177
2022-06-29 16:45	528300	8.173	-119.114	19.019	266.626	301.015	0.145	11.675	19.019	8.200
2022-06-29 17:00	529200	8.194	-120.316	19.061	266.823	300.961	0.145	12.116	19.061	8.256
2022-06-29 17:15	530100	8.187	-119.915	19.088	267.034	301.024	0.145	11.385	19.088	8.297
2022-06-29 17:30	531000	8.193	-120.263	19.170	267.494	301.016	0.145	10.908	19.170	8.352
2022-06-29 17:45	531900	8.192	-120.213	19.174	267.594	301.100	0.145	11.473	19.174	8.351
2022-06-29 18:00	532800	8.213	-121.384	19.109	267.097	300.963	0.145	10.613	19.109	8.370
2022-06-29 18:15	533700	8.209	-121.186	19.140	267.233	300.916	0.145	10.856	19.140	8.406
2022-06-29 18:30	534600	8.215	-121.505	19.117	267.110	300.922	0.145	10.977	19.117	8.454
2022-06-29 18:45	535500	8.218	-121.665	19.120	267.115	300.911	0.145	10.602	19.120	8.482
2022-06-29 19:00	536400	8.238	-122.831	19.170	267.440	300.952	0.145	10.926	19.170	8.533
2022-06-29 19:15	537300	8.233	-122.581	19.204	267.631	300.946	0.145	10.843	19.204	8.562
2022-06-29 19:30	538200	8.237	-122.790	19.241	267.923	301.037	0.145	11.203	19.241	8.576
2022-06-29 19:45	539100	8.245	-123.243	19.267	268.092	301.056	0.145	11.388	19.267	8.610
2022-06-29 20:00	540000	8.260	-124.111	19.321	268.516	301.182	0.145	10.337	19.321	8.641
2022-06-29 20:15	540900	8.260	-124.130	19.373	268.700	301.059	0.145	11.125	19.373	8.666
2022-06-29 20:30	541800	8.265	-124.435	19.411	268.945	301.087	0.145	10.475	19.411	8.678
2022-06-29 20:45	542700	8.265	-124.445	19.446	269.175	301.121	0.145	10.824	19.446	8.706
2022-06-29 21:00	543600	8.282	-125.453	19.483	269.510	301.254	0.145	10.333	19.483	8.725
2022-06-29 21:15	544500	8.273	-124.943	19.538	269.841	301.270	0.145	9.502	19.538	8.745
2022-06-29 21:30	545400	8.284	-125.577	19.586	270.170	301.327	0.145	9.997	19.586	8.763
2022-06-29 21:45	546300	8.282	-125.496	19.624	270.393	301.332	0.145	9.725	19.624	8.781
2022-06-29 22:00	547200	8.302	-126.622	19.671	270.855	301.550	0.145	10.431	19.671	8.800
2022-06-29 22:15	548100	8.295	-126.240	19.705	270.925	301.410	0.145	10.909	19.705	8.811
2022-06-29 22:30	549000	8.303	-126.727	19.756	271.273	301.466	0.145	9.792	19.756	8.817
2022-06-29 22:45	549900	8.304	-126.815	19.790	271.534	301.539	0.145	9.959	19.790	8.835
2022-06-29 23:00	550800	8.313	-127.354	19.818	271.803	301.659	0.145	10.741	19.818	8.835
2022-06-29 23:15	551700	8.311	-127.230	19.864	272.099	301.694	0.145	10.265	19.864	8.851
2022-06-29 23:30	552600	8.315	-127.501	19.898	272.335	301.740	0.145	9.598	19.898	8.841
2022-06-29 23:45	553500	8.317	-127.583	19.923	272.580	301.849	0.145	10.469	19.923	8.849

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-30 0:00	554400	8.333	-128.505	19.965	273.001	302.051	0.145	11.533	19.965	8.848
2022-06-30 0:15	555300	8.326	-128.155	20.011	273.256	302.038	0.145	10.421	20.011	8.855
2022-06-30 0:30	556200	8.324	-128.040	20.034	273.466	302.125	0.145	10.116	20.034	8.834
2022-06-30 0:45	557100	8.329	-128.360	20.068	273.705	302.169	0.145	13.091	20.068	8.821
2022-06-30 1:00	558000	8.342	-129.077	20.095	273.992	302.313	0.145	10.837	20.095	8.812
2022-06-30 1:15	558900	8.338	-128.870	20.112	274.078	302.299	0.145	9.862	20.112	8.798
2022-06-30 1:30	559800	8.333	-128.582	20.128	274.272	302.415	0.145	10.818	20.128	8.777
2022-06-30 1:45	560700	8.336	-128.794	20.134	273.995	302.068	0.145	9.829	20.134	8.755
2022-06-30 2:00	561600	8.346	-129.316	20.126	274.471	302.645	0.146	9.431	20.126	8.735
2022-06-30 2:15	562500	8.329	-128.360	20.120	274.468	302.678	0.146	9.585	20.120	8.718
2022-06-30 2:30	563400	8.334	-128.627	20.117	274.531	302.770	0.146	9.532	20.117	8.696
2022-06-30 2:45	564300	8.334	-128.627	20.099	274.590	302.947	0.146	8.691	20.099	8.681
2022-06-30 3:00	565200	8.344	-129.187	20.081	274.525	302.992	0.146	8.946	20.081	8.647
2022-06-30 3:15	566100	8.340	-128.973	20.057	274.536	303.158	0.146	8.700	20.057	8.633
2022-06-30 3:30	567000	8.339	-128.913	20.032	274.573	303.361	0.146	9.326	20.032	8.606
2022-06-30 3:45	567900	8.335	-128.644	19.995	274.577	303.599	0.146	9.113	19.995	8.576
2022-06-30 4:00	568800	8.341	-128.982	19.962	274.744	303.995	0.146	9.384	19.962	8.531
2022-06-30 4:15	569700	8.333	-128.500	19.925	274.641	304.123	0.146	11.397	19.925	8.509
2022-06-30 4:30	570600	8.331	-128.372	19.882	274.692	304.452	0.146	9.859	19.882	8.474
2022-06-30 4:45	571500	8.327	-128.124	19.840	274.706	304.741	0.147	9.724	19.840	8.447
2022-06-30 5:00	572400	8.329	-128.207	19.794	274.872	305.220	0.147	8.933	19.794	8.413
2022-06-30 5:15	573300	8.321	-127.747	19.754	274.841	305.449	0.147	8.594	19.754	8.383
2022-06-30 5:30	574200	8.318	-127.590	19.703	274.957	305.905	0.147	9.981	19.703	8.353
2022-06-30 5:45	575100	8.318	-127.532	19.659	274.893	306.121	0.147	10.856	19.659	8.329
2022-06-30 6:00	576000	8.318	-127.523	19.613	275.139	306.694	0.147	8.649	19.613	8.300
2022-06-30 6:15	576900	8.300	-126.472	19.568	275.284	307.148	0.148	9.606	19.568	8.271
2022-06-30 6:30	577800	8.300	-126.443	19.526	275.364	307.516	0.148	8.600	19.526	8.254
2022-06-30 6:45	578700	8.300	-126.452	19.479	275.452	307.926	0.148	8.714	19.479	8.222
2022-06-30 7:00	579600	8.306	-126.770	19.439	275.486	308.225	0.148	9.300	19.439	8.200
2022-06-30 7:15	580500	8.299	-126.343	19.398	275.600	308.621	0.148	9.752	19.398	8.177
2022-06-30 7:30	581400	8.293	-126.023	19.359	275.747	309.044	0.149	9.271	19.359	8.147
2022-06-30 7:45	582300	8.288	-125.706	19.324	275.869	309.412	0.149	8.987	19.324	8.119
2022-06-30 8:00	583200	8.294	-126.038	19.294	276.108	309.879	0.149	9.416	19.294	8.099
2022-06-30 8:15	584100	8.281	-125.287	19.263	276.110	310.090	0.149	9.387	19.263	8.075
2022-06-30 8:30	585000	8.276	-125.015	19.230	276.198	310.409	0.149	8.975	19.230	8.052
2022-06-30 8:45	585900	8.277	-125.053	19.214	276.348	310.680	0.149	9.038	19.214	8.030
2022-06-30 9:00	586800	8.279	-125.153	19.199	276.609	311.073	0.150	9.505	19.199	8.003
2022-06-30 9:15	587700	8.269	-124.555	19.195	276.621	311.118	0.150	9.092	19.195	7.984
2022-06-30 9:30	588600	8.265	-124.326	19.187	276.741	311.303	0.150	8.943	19.187	7.967
2022-06-30 9:45	589500	8.263	-124.211	19.183	276.841	311.441	0.150	11.752	19.183	7.951
2022-06-30 10:00	590400	8.266	-124.381	19.186	277.129	311.748	0.150	9.106	19.186	7.935
2022-06-30 10:15	591300	8.257	-123.889	19.197	277.215	311.769	0.150	9.103	19.197	7.920
2022-06-30 10:30	592200	8.254	-123.727	19.206	277.332	311.845	0.150	8.575	19.206	7.909
2022-06-30 10:45	593100	8.246	-123.310	19.222	277.490	311.914	0.150	9.490	19.222	7.895

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-30 11:00	594000	8.249	-123.484	19.239	277.762	312.102	0.150	9.498	19.239	7.893
2022-06-30 11:15	594900	8.241	-123.012	19.268	277.735	311.881	0.150	11.339	19.268	7.878
2022-06-30 11:30	595800	8.238	-122.855	19.296	278.015	312.010	0.150	9.789	19.296	7.867
2022-06-30 11:45	596700	8.234	-122.664	19.324	278.197	312.026	0.150	10.092	19.324	7.855
2022-06-30 12:00	597600	8.234	-122.681	19.347	278.457	312.162	0.150	10.677	19.347	7.841
2022-06-30 12:15	598500	8.220	-121.887	19.371	278.535	312.087	0.150	10.467	19.371	7.832
2022-06-30 12:30	599400	8.219	-121.834	19.397	278.708	312.111	0.150	13.497	19.397	7.832
2022-06-30 12:45	600300	8.212	-121.469	19.432	278.964	312.162	0.150	12.582	19.432	7.825
2022-06-30 13:00	601200	8.212	-121.450	19.453	279.058	312.126	0.150	12.089	19.453	7.813
2022-06-30 13:15	602100	8.204	-121.036	19.477	279.047	311.958	0.150	11.490	19.477	7.810
2022-06-30 13:30	603000	8.203	-121.002	19.529	279.459	312.067	0.150	10.587	19.529	7.820
2022-06-30 13:45	603900	8.196	-120.625	19.554	279.596	312.057	0.150	9.826	19.554	7.824
2022-06-30 14:00	604800	8.199	-120.800	19.606	279.932	312.082	0.150	11.988	19.606	7.817
2022-06-30 14:15	605700	8.191	-120.356	19.641	280.165	312.111	0.150	10.616	19.641	7.831
2022-06-30 14:30	606600	8.183	-119.922	19.660	280.210	312.032	0.150	9.308	19.660	7.832
2022-06-30 14:45	607500	8.182	-119.905	19.707	280.505	312.052	0.150	10.426	19.707	7.840
2022-06-30 15:00	608400	8.182	-119.896	19.751	280.831	312.125	0.150	10.311	19.751	7.845
2022-06-30 15:15	609300	8.176	-119.596	19.830	281.368	312.196	0.150	10.483	19.830	7.856
2022-06-30 15:30	610200	8.176	-119.603	19.883	281.712	312.229	0.150	10.124	19.883	7.863
2022-06-30 15:45	611100	8.169	-119.255	19.933	281.972	312.187	0.150	9.733	19.933	7.881
2022-06-30 16:00	612000	8.179	-119.836	19.957	282.265	312.352	0.150	10.079	19.957	7.906
2022-06-30 16:15	612900	8.168	-119.240	20.026	282.632	312.301	0.150	9.737	20.026	7.912
2022-06-30 16:30	613800	8.166	-119.145	20.112	283.197	312.359	0.150	9.607	20.112	7.932
2022-06-30 16:45	614700	8.163	-119.016	20.198	283.759	312.410	0.150	9.822	20.198	7.948
2022-06-30 17:00	615600	8.170	-119.472	20.284	284.303	312.446	0.150	7.825	20.284	7.985
2022-06-30 17:15	616500	8.158	-118.799	20.377	284.959	312.557	0.150	8.540	20.377	7.994
2022-06-30 17:30	617400	8.166	-119.305	20.499	285.836	312.719	0.150	870.313	20.499	8.027
2022-06-30 17:45	618300	8.165	-119.302	20.569	286.220	312.681	0.150	9.801	20.569	8.054
2022-06-30 18:00	619200	8.173	-119.748	20.625	286.670	312.811	0.151	8.537	20.625	8.083
2022-06-30 18:15	620100	8.170	-119.612	20.694	286.992	312.711	0.150	9.584	20.694	8.121
2022-06-30 18:30	621000	8.164	-119.281	20.726	287.198	312.723	0.150	9.642	20.726	8.148
2022-06-30 18:45	621900	8.178	-120.106	20.756	287.393	312.742	0.150	9.514	20.756	8.182
2022-06-30 19:00	622800	8.185	-120.511	20.835	287.920	312.807	0.151	8.446	20.835	8.227
2022-06-30 19:15	623700	8.176	-120.029	20.908	288.362	312.808	0.151	8.472	20.908	8.257
2022-06-30 19:30	624600	8.178	-120.163	20.915	288.569	312.991	0.151	9.404	20.915	8.255
2022-06-30 19:45	625500	8.187	-120.666	20.950	288.595	312.794	0.151	7.709	20.950	8.306
2022-06-30 20:00	626400	8.204	-121.627	20.967	288.736	312.836	0.151	8.612	20.967	8.336
2022-06-30 20:15	627300	8.203	-121.593	21.006	288.945	312.807	0.151	9.185	21.006	8.373
2022-06-30 20:30	628200	8.202	-121.589	21.071	289.256	312.726	0.150	10.041	21.071	8.393
2022-06-30 20:45	629100	8.214	-122.287	21.110	289.472	312.707	0.150	8.900	21.110	8.427
2022-06-30 21:00	630000	8.221	-122.693	21.145	289.666	312.691	0.150	8.528	21.145	8.454
2022-06-30 21:15	630900	8.224	-122.850	21.157	289.601	312.539	0.150	9.058	21.157	8.461
2022-06-30 21:30	631800	8.230	-123.208	21.178	289.587	312.391	0.150	9.000	21.178	8.482
2022-06-30 21:45	632700	8.237	-123.620	21.192	289.706	312.429	0.150	9.001	21.192	8.519

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-06-30 22:00	633600	8.245	-124.073	21.176	289.713	312.543	0.150	9.033	21.176	8.522
2022-06-30 22:15	634500	8.238	-123.644	21.156	289.412	312.345	0.150	8.647	21.156	8.540
2022-06-30 22:30	635400	8.240	-123.789	21.142	289.262	312.274	0.150	8.237	21.142	8.572
2022-06-30 22:45	636300	8.254	-124.543	21.131	289.154	312.225	0.150	8.146	21.131	8.614
2022-06-30 23:00	637200	8.262	-124.972	21.105	289.013	312.242	0.150	9.115	21.105	8.622
2022-06-30 23:15	638100	8.259	-124.815	21.077	288.763	312.155	0.150	7.943	21.077	8.631
2022-06-30 23:30	639000	8.263	-125.029	21.048	288.494	312.052	0.150	8.390	21.048	8.641
2022-06-30 23:45	639900	8.259	-124.786	21.037	288.465	312.088	0.150	10.204	21.037	8.634
2022-07-01 0:00	640800	8.270	-125.411	21.032	288.520	312.178	0.150	8.802	21.032	8.654
2022-07-01 0:15	641700	8.269	-125.368	21.042	288.430	312.017	0.150	8.453	21.042	8.666
2022-07-01 0:30	642600	8.276	-125.792	21.059	288.467	311.950	0.150	8.360	21.059	8.685
2022-07-01 0:45	643500	8.280	-126.030	21.078	288.506	311.869	0.150	8.634	21.078	8.692
2022-07-01 1:00	644400	8.299	-127.084	21.111	288.690	311.857	0.150	17.323	21.111	8.708
2022-07-01 1:15	645300	8.296	-126.965	21.134	288.795	311.819	0.150	7.791	21.134	8.719
2022-07-01 1:30	646200	8.300	-127.199	21.150	288.781	311.704	0.150	8.780	21.150	8.729
2022-07-01 1:45	647100	8.305	-127.492	21.189	289.049	311.744	0.150	7.929	21.189	8.732
2022-07-01 2:00	648000	8.321	-128.386	21.229	289.270	311.721	0.150	9.027	21.229	8.742
2022-07-01 2:15	648900	8.322	-128.493	21.267	289.464	311.690	0.150	8.962	21.267	8.733
2022-07-01 2:30	649800	8.323	-128.562	21.297	289.653	311.698	0.150	8.468	21.297	8.735
2022-07-01 2:45	650700	8.326	-128.732	21.326	289.816	311.687	0.150	8.331	21.326	8.731
2022-07-01 3:00	651600	8.338	-129.411	21.352	289.948	311.661	0.150	8.157	21.352	8.719
2022-07-01 3:15	652500	8.329	-128.927	21.382	290.173	311.714	0.150	8.771	21.382	8.705
2022-07-01 3:30	653400	8.333	-129.175	21.408	290.324	311.707	0.150	8.674	21.408	8.695
2022-07-01 3:45	654300	8.334	-129.223	21.428	290.489	311.755	0.150	8.334	21.428	8.677
2022-07-01 4:00	655201	8.345	-129.883	21.448	290.731	311.889	0.150	9.260	21.448	8.649
2022-07-01 4:15	656101	8.342	-129.700	21.469	290.800	311.829	0.150	8.856	21.469	8.627
2022-07-01 4:30	657001	8.339	-129.516	21.481	290.907	311.867	0.150	8.772	21.481	8.611
2022-07-01 4:45	657901	8.343	-129.783	21.496	291.014	311.887	0.150	8.727	21.496	8.589
2022-07-01 5:00	658801	8.352	-130.274	21.508	291.185	311.996	0.150	10.061	21.508	8.558
2022-07-01 5:15	659701	8.348	-130.043	21.505	291.108	311.929	0.150	9.020	21.505	8.527
2022-07-01 5:30	660601	8.343	-129.790	21.521	291.246	311.978	0.150	8.608	21.521	8.492
2022-07-01 5:45	661501	8.348	-130.038	21.516	291.230	311.994	0.150	8.457	21.516	8.463
2022-07-01 6:00	662401	8.357	-130.541	21.515	291.563	312.354	0.150	8.517	21.515	8.426
2022-07-01 6:15	663301	8.354	-130.367	21.514	291.374	312.161	0.150	8.326	21.514	8.389
2022-07-01 6:30	664201	8.353	-130.324	21.502	291.353	312.214	0.150	8.647	21.502	8.361
2022-07-01 6:45	665101	8.349	-130.091	21.498	291.402	312.288	0.150	8.214	21.498	8.325
2022-07-01 7:00	666001	8.358	-130.599	21.492	291.396	312.320	0.150	9.333	21.492	8.301
2022-07-01 7:15	666901	8.344	-129.788	21.473	291.346	312.391	0.150	8.917	21.473	8.266
2022-07-01 7:30	667801	8.341	-129.640	21.452	291.372	312.552	0.150	8.869	21.452	8.210
2022-07-01 7:45	668701	8.344	-129.809	21.417	290.953	312.329	0.150	7.809	21.417	8.180
2022-07-01 8:00	669601	8.352	-130.222	21.408	291.041	312.477	0.150	9.342	21.408	8.152
2022-07-01 8:15	670501	8.346	-129.876	21.402	291.008	312.485	0.150	8.139	21.402	8.126
2022-07-01 8:30	671401	8.341	-129.628	21.385	290.944	312.521	0.150	8.375	21.385	8.081
2022-07-01 8:45	672301	8.342	-129.635	21.359	290.897	312.640	0.150	8.268	21.359	8.036

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-01 9:00	673201	8.341	-129.554	21.330	290.895	312.820	0.151	8.642	21.330	8.005
2022-07-01 9:15	674101	8.336	-129.280	21.302	290.740	312.837	0.151	9.352	21.302	7.965
2022-07-01 9:30	675001	8.332	-129.020	21.270	290.597	312.885	0.151	8.848	21.270	7.931
2022-07-01 9:45	675901	8.325	-128.648	21.241	290.523	312.996	0.151	8.373	21.241	7.889
2022-07-01 10:00	676801	8.326	-128.682	21.209	291.051	313.769	0.151	8.471	21.209	7.852
2022-07-01 10:15	677701	8.316	-128.081	21.180	290.305	313.153	0.151	12.043	21.180	7.819
2022-07-01 10:30	678601	8.315	-128.026	21.136	289.996	313.106	0.151	7.961	21.136	7.792
2022-07-01 10:45	679501	8.308	-127.621	21.098	289.842	313.182	0.151	8.917	21.098	7.744
2022-07-01 11:00	680401	8.306	-127.475	21.062	289.725	313.291	0.151	10.060	21.062	7.711
2022-07-01 11:15	681301	8.288	-126.431	21.020	289.564	313.387	0.151	10.067	21.020	7.681
2022-07-01 11:30	682201	8.291	-126.607	20.999	289.637	313.600	0.151	8.885	20.999	7.679
2022-07-01 11:45	683101	8.279	-125.895	20.964	289.462	313.641	0.151	9.528	20.964	7.627
2022-07-01 12:00	684001	8.279	-125.895	20.930	289.492	313.894	0.151	10.451	20.930	7.566
2022-07-01 12:15	684901	8.265	-125.091	20.893	289.327	313.952	0.151	10.670	20.893	7.571
2022-07-01 12:30	685801	8.271	-125.384	20.877	289.458	314.204	0.151	9.521	20.877	7.571
2022-07-01 12:45	686701	8.258	-124.657	20.848	289.260	314.176	0.151	11.427	20.848	7.519
2022-07-01 13:00	687601	8.252	-124.292	20.802	289.027	314.223	0.151	10.440	20.802	7.461
2022-07-01 13:15	688501	8.236	-123.386	20.750	288.785	314.297	0.151	11.763	20.750	7.428
2022-07-01 13:30	689401	8.230	-123.034	20.696	288.577	314.426	0.151	10.017	20.696	7.395
2022-07-01 13:45	690301	8.230	-122.991	20.659	288.385	314.455	0.151	11.444	20.659	7.406
2022-07-01 14:00	691201	8.225	-122.683	20.609	288.450	314.856	0.152	14.185	20.609	7.347
2022-07-01 14:15	692101	8.209	-121.763	20.565	288.261	314.939	0.152	9.729	20.565	7.323
2022-07-01 14:30	693001	8.205	-121.512	20.544	288.264	315.078	0.152	10.728	20.544	7.316
2022-07-01 14:45	693901	8.200	-121.214	20.501	288.100	315.185	0.152	10.923	20.501	7.300
2022-07-01 15:00	694801	8.199	-121.129	20.443	287.897	315.343	0.152	11.487	20.443	7.267
2022-07-01 15:15	695701	8.192	-120.723	20.423	287.782	315.351	0.152	11.295	20.423	7.285
2022-07-01 15:30	696601	8.189	-120.578	20.416	287.895	315.519	0.152	10.088	20.416	7.281
2022-07-01 15:45	697501	8.185	-120.342	20.421	287.988	315.592	0.152	9.761	20.421	7.296
2022-07-01 16:00	698401	8.193	-120.783	20.434	288.364	315.916	0.152	10.181	20.434	7.318
2022-07-01 16:15	699301	8.186	-120.437	20.438	288.530	316.071	0.152	12.731	20.438	7.328
2022-07-01 16:30	700201	8.180	-120.060	20.424	288.557	316.194	0.152	10.157	20.424	7.309
2022-07-01 16:45	701101	8.172	-119.619	20.401	288.504	316.284	0.152	9.967	20.401	7.288
2022-07-01 17:00	702001	8.175	-119.767	20.387	288.469	316.343	0.152	10.149	20.387	7.303
2022-07-01 17:15	702901	8.158	-118.816	20.349	288.483	316.612	0.152	9.127	20.349	7.254
2022-07-01 17:30	703801	8.153	-118.496	20.324	288.338	316.613	0.152	9.670	20.324	7.248
2022-07-01 17:45	704701	8.155	-118.630	20.314	288.333	316.679	0.152	9.079	20.314	7.275
2022-07-01 18:00	705601	8.153	-118.454	20.272	288.360	316.984	0.153	9.943	20.272	7.234
2022-07-01 18:15	706501	8.148	-118.177	20.241	288.092	316.897	0.153	9.009	20.241	7.246
2022-07-01 18:30	707401	8.146	-118.063	20.217	287.995	316.948	0.153	9.448	20.217	7.255
2022-07-01 18:45	708301	8.144	-117.965	20.192	288.035	317.158	0.153	9.980	20.192	7.276
2022-07-01 19:00	709201	8.146	-118.029	20.167	287.992	317.280	0.153	9.398	20.167	7.269
2022-07-01 19:15	710101	8.135	-117.400	20.124	287.832	317.393	0.153	8.834	20.124	7.263
2022-07-01 19:30	711001	8.128	-116.973	20.080	287.622	317.456	0.153	9.627	20.080	7.253
2022-07-01 19:45	711901	8.124	-116.742	20.033	287.338	317.457	0.153	9.086	20.033	7.252

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-01 20:00	712801	8.126	-116.827	19.983	287.368	317.825	0.153	10.605	19.983	7.246
2022-07-01 20:15	713701	8.118	-116.358	19.934	287.081	317.833	0.153	9.442	19.934	7.246
2022-07-01 20:30	714601	8.113	-116.043	19.892	286.962	317.986	0.153	10.148	19.892	7.251
2022-07-01 20:45	715501	8.107	-115.702	19.848	286.804	318.106	0.153	10.151	19.848	7.245
2022-07-01 21:00	716401	8.112	-116.005	19.806	286.647	318.215	0.153	11.112	19.806	7.244
2022-07-01 21:15	717301	8.100	-115.297	19.755	286.413	318.300	0.153	9.670	19.755	7.239
2022-07-01 21:30	718201	8.095	-114.968	19.708	286.300	318.495	0.153	11.371	19.708	7.248
2022-07-01 21:45	719101	8.093	-114.841	19.665	286.123	318.586	0.153	10.966	19.665	7.254
2022-07-01 22:00	720001	8.102	-115.321	19.615	285.995	318.786	0.153	10.202	19.615	7.268
2022-07-01 22:15	720901	8.092	-114.784	19.570	285.777	318.844	0.153	10.508	19.570	7.281
2022-07-01 22:30	721801	8.090	-114.644	19.525	285.610	318.965	0.154	10.182	19.525	7.282
2022-07-01 22:45	722701	8.090	-114.624	19.476	285.454	319.126	0.154	9.754	19.476	7.299
2022-07-01 23:00	723601	8.096	-114.951	19.434	285.376	319.322	0.154	11.147	19.434	7.313
2022-07-01 23:15	724501	8.092	-114.660	19.387	285.113	319.351	0.154	10.175	19.387	7.339
2022-07-01 23:30	725401	8.094	-114.796	19.346	285.055	319.568	0.154	9.619	19.346	7.360
2022-07-01 23:45	726301	8.088	-114.436	19.312	284.875	319.595	0.154	10.356	19.312	7.379
2022-07-02 0:00	727201	8.101	-115.139	19.278	284.990	319.961	0.154	10.689	19.278	7.404
2022-07-02 0:15	728101	8.096	-114.858	19.238	284.776	319.996	0.154	9.994	19.238	7.439
2022-07-02 0:30	729001	8.098	-114.956	19.202	284.668	320.119	0.154	10.229	19.202	7.454
2022-07-02 0:45	729901	8.102	-115.161	19.172	284.478	320.113	0.154	8.561	19.172	7.492
2022-07-02 1:00	730801	8.114	-115.821	19.130	284.369	320.277	0.154	10.027	19.130	7.530
2022-07-02 1:15	731701	8.113	-115.769	19.095	284.106	320.222	0.154	10.700	19.095	7.572
2022-07-02 1:30	732601	8.120	-116.150	19.063	283.938	320.255	0.154	9.527	19.063	7.609
2022-07-02 1:45	733501	8.130	-116.675	19.037	283.830	320.312	0.154	10.092	19.037	7.658
2022-07-02 2:00	734401	8.136	-116.997	19.013	283.966	320.627	0.154	10.455	19.013	7.682
2022-07-02 2:15	735301	8.134	-116.916	18.993	283.676	320.443	0.154	9.765	18.993	7.709
2022-07-02 2:30	736201	8.145	-117.507	18.970	283.599	320.510	0.154	9.553	18.970	7.754
2022-07-02 2:45	737101	8.152	-117.877	18.945	283.510	320.587	0.154	11.409	18.945	7.796
2022-07-02 3:00	738001	8.164	-118.537	18.921	283.448	320.680	0.154	9.892	18.921	7.829
2022-07-02 3:15	738901	8.162	-118.425	18.896	283.217	320.597	0.154	9.181	18.896	7.856
2022-07-02 3:30	739801	8.169	-118.837	18.874	283.113	320.628	0.154	9.211	18.874	7.896
2022-07-02 3:45	740701	8.175	-119.123	18.851	283.056	320.723	0.154	10.100	18.851	7.912
2022-07-02 4:00	741601	8.181	-119.486	18.825	283.079	320.927	0.154	10.151	18.825	7.930
2022-07-02 4:15	742501	8.181	-119.474	18.804	282.927	320.906	0.154	10.209	18.804	7.966
2022-07-02 4:30	743401	8.188	-119.822	18.776	282.849	321.009	0.154	8.962	18.776	7.985
2022-07-02 4:45	744301	8.192	-120.041	18.752	282.718	321.027	0.154	10.284	18.752	8.010
2022-07-02 5:00	745201	8.203	-120.659	18.731	282.630	321.077	0.155	10.949	18.731	8.020
2022-07-02 5:15	746101	8.205	-120.792	18.705	282.385	320.977	0.154	10.352	18.705	8.041
2022-07-02 5:30	747001	8.209	-120.969	18.680	282.274	321.023	0.154	10.416	18.680	8.056
2022-07-02 5:45	747901	8.211	-121.083	18.656	282.158	321.061	0.154	12.307	18.656	8.066
2022-07-02 6:00	748801	8.219	-121.520	18.632	282.234	321.315	0.155	12.805	18.632	8.078
2022-07-02 6:15	749701	8.218	-121.462	18.611	282.026	321.228	0.155	10.166	18.611	8.093
2022-07-02 6:30	750601	8.223	-121.732	18.587	281.873	321.218	0.155	9.534	18.587	8.115
2022-07-02 6:45	751501	8.232	-122.216	18.566	281.751	321.228	0.155	9.608	18.566	8.126

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-02 7:00	752401	8.244	-122.905	18.550	281.690	321.265	0.155	10.058	18.550	8.148
2022-07-02 7:15	753301	8.242	-122.781	18.533	281.568	321.246	0.155	10.334	18.533	8.156
2022-07-02 7:30	754201	8.245	-122.929	18.520	281.328	321.068	0.154	9.210	18.520	8.164
2022-07-02 7:45	755101	8.251	-123.277	18.504	281.321	321.170	0.155	9.462	18.504	8.180
2022-07-02 8:00	756001	8.264	-123.985	18.490	281.337	321.287	0.155	10.553	18.490	8.191
2022-07-02 8:15	756901	8.254	-123.441	18.477	281.291	321.323	0.155	9.164	18.477	8.201
2022-07-02 8:30	757801	8.261	-123.811	18.463	281.211	321.334	0.155	9.995	18.463	8.194
2022-07-02 8:45	758701	8.264	-123.985	18.463	281.225	321.349	0.155	11.661	18.463	8.223
2022-07-02 9:00	759601	8.277	-124.722	18.466	281.209	321.308	0.155	10.210	18.466	8.228
2022-07-02 9:15	760501	8.271	-124.412	18.484	281.308	321.296	0.155	10.388	18.484	8.228
2022-07-02 9:30	761401	8.274	-124.574	18.508	281.486	321.330	0.155	10.144	18.508	8.234
2022-07-02 9:45	762301	8.274	-124.547	18.506	281.566	321.439	0.155	9.273	18.506	8.232
2022-07-02 10:00	763201	8.285	-125.158	18.499	281.702	321.642	0.155	9.780	18.499	8.227
2022-07-02 10:15	764101	8.275	-124.600	18.486	281.435	321.423	0.155	9.909	18.486	8.221
2022-07-02 10:30	765001	8.268	-124.211	18.468	281.420	321.537	0.155	9.977	18.468	8.178
2022-07-02 10:45	765901	8.264	-123.978	18.439	281.267	321.563	0.155	10.100	18.439	8.146
2022-07-02 11:00	766801	8.270	-124.326	18.419	281.242	321.679	0.155	10.765	18.419	8.133
2022-07-02 11:15	767701	8.260	-123.744	18.396	281.002	321.564	0.155	10.994	18.396	8.107
2022-07-02 11:30	768601	8.258	-123.613	18.393	281.002	321.586	0.155	9.532	18.393	8.106
2022-07-02 11:45	769501	8.250	-123.162	18.366	280.930	321.691	0.155	8.952	18.366	8.050
2022-07-02 12:00	770401	8.251	-123.196	18.339	280.916	321.866	0.155	10.284	18.339	8.023
2022-07-02 12:15	771301	8.241	-122.664	18.323	280.685	321.716	0.155	8.702	18.323	8.020
2022-07-02 12:30	772201	8.241	-122.662	18.321	280.783	321.841	0.155	9.654	18.321	8.022
2022-07-02 12:45	773101	8.241	-122.666	18.339	280.943	321.894	0.155	9.597	18.339	8.036
2022-07-02 13:00	774001	8.250	-123.174	18.370	281.098	321.856	0.155	9.783	18.370	8.036
2022-07-02 13:15	774901	8.242	-122.726	18.421	281.536	321.998	0.155	9.588	18.421	8.047
2022-07-02 13:30	775801	8.237	-122.449	18.464	281.866	322.070	0.155	8.106	18.464	8.038
2022-07-02 13:45	776701	8.227	-121.913	18.440	281.856	322.229	0.155	9.529	18.440	7.981
2022-07-02 14:00	777601	8.236	-122.383	18.436	281.932	322.344	0.155	9.554	18.436	7.991
2022-07-02 14:15	778501	8.222	-121.644	18.448	281.954	322.285	0.155	10.502	18.448	7.987
2022-07-02 14:30	779401	8.210	-120.950	18.428	281.911	322.375	0.155	10.185	18.428	7.920
2022-07-02 14:45	780301	8.210	-120.957	18.419	281.787	322.297	0.155	10.517	18.419	7.933
2022-07-02 15:00	781201	8.218	-121.412	18.447	282.064	322.420	0.155	10.149	18.447	7.947
2022-07-02 15:15	782101	8.204	-120.609	18.471	282.205	322.413	0.155	10.434	18.471	7.936
2022-07-02 15:30	783001	8.201	-120.432	18.491	282.493	322.598	0.155	9.925	18.491	7.924
2022-07-02 15:45	783901	8.196	-120.158	18.485	282.444	322.585	0.155	9.406	18.485	7.909
2022-07-02 16:00	784801	8.204	-120.614	18.499	282.735	322.821	0.155	12.795	18.499	7.923
2022-07-02 16:15	785701	8.186	-119.631	18.478	282.538	322.744	0.155	13.328	18.478	7.867
2022-07-02 16:30	786601	8.182	-119.395	18.470	282.536	322.795	0.155	9.520	18.470	7.860
2022-07-02 16:45	787501	8.182	-119.395	18.481	282.714	322.922	0.155	9.807	18.481	7.885
2022-07-02 17:00	788401	8.183	-119.441	18.486	282.923	323.126	0.156	9.362	18.486	7.860
2022-07-02 17:15	789301	8.168	-118.620	18.477	282.854	323.109	0.155	9.605	18.477	7.835
2022-07-02 17:30	790201	8.173	-118.856	18.486	282.937	323.143	0.156	9.275	18.486	7.865
2022-07-02 17:45	791101	8.174	-118.966	18.511	283.238	323.310	0.156	10.109	18.511	7.893

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-02 18:00	792001	8.183	-119.448	18.554	283.733	323.571	0.156	10.048	18.554	7.917
2022-07-02 18:15	792901	8.169	-118.666	18.553	283.680	323.515	0.156	8.719	18.553	7.904
2022-07-02 18:30	793801	8.176	-119.121	18.599	284.029	323.588	0.156	9.127	18.599	7.964
2022-07-02 18:45	794701	8.173	-118.973	18.654	284.507	323.750	0.156	8.350	18.654	7.973
2022-07-02 19:00	795601	8.177	-119.205	18.670	284.735	323.898	0.156	9.398	18.670	7.951
2022-07-02 19:15	796501	8.155	-117.900	18.610	284.372	323.902	0.156	8.847	18.610	7.900
2022-07-02 19:30	797401	8.153	-117.772	18.557	284.161	324.038	0.156	8.587	18.557	7.904
2022-07-02 19:45	798301	8.153	-117.784	18.567	284.295	324.120	0.156	10.031	18.567	7.924
2022-07-02 20:00	799201	8.157	-118.001	18.554	284.375	324.305	0.156	8.881	18.554	7.915
2022-07-02 20:15	800101	8.150	-117.583	18.536	284.143	324.164	0.156	8.940	18.536	7.916
2022-07-02 20:30	801001	8.148	-117.464	18.512	284.072	324.254	0.156	10.914	18.512	7.921
2022-07-02 20:45	801901	8.147	-117.414	18.481	283.976	324.365	0.156	8.698	18.481	7.920
2022-07-02 21:00	802801	8.152	-117.669	18.447	283.812	324.417	0.156	8.865	18.447	7.915
2022-07-02 21:15	803701	8.135	-116.744	18.419	283.735	324.527	0.156	9.051	18.419	7.917
2022-07-02 21:30	804601	8.133	-116.622	18.396	283.651	324.596	0.156	8.801	18.396	7.915
2022-07-02 21:45	805501	8.135	-116.675	18.370	283.602	324.721	0.156	9.776	18.370	7.916
2022-07-02 22:00	806401	8.144	-117.183	18.350	283.598	324.857	0.156	9.394	18.350	7.925
2022-07-02 22:15	807301	8.134	-116.608	18.328	283.460	324.857	0.156	8.847	18.328	7.923
2022-07-02 22:30	808201	8.134	-116.644	18.302	283.417	324.995	0.156	9.725	18.302	7.931
2022-07-02 22:45	809101	8.132	-116.513	18.278	283.229	324.952	0.156	9.512	18.278	7.941
2022-07-02 23:00	810001	8.141	-117.006	18.250	283.208	325.122	0.156	11.010	18.250	7.950
2022-07-02 23:15	810901	8.134	-116.565	18.218	283.028	325.143	0.156	9.799	18.218	7.964
2022-07-02 23:30	811801	8.129	-116.267	18.188	282.901	325.213	0.157	10.318	18.188	7.967
2022-07-02 23:45	812701	8.128	-116.227	18.159	282.768	325.271	0.157	9.074	18.159	7.970
2022-07-03 0:00	813601	8.137	-116.732	18.133	282.698	325.372	0.157	11.269	18.133	7.980
2022-07-03 0:15	814501	8.128	-116.181	18.112	282.594	325.403	0.157	9.472	18.112	7.990
2022-07-03 0:30	815401	8.127	-116.141	18.083	282.431	325.421	0.157	9.795	18.083	7.991
2022-07-03 0:45	816301	8.128	-116.200	18.052	282.293	325.489	0.157	10.275	18.052	8.014
2022-07-03 1:00	817201	8.139	-116.801	18.025	282.421	325.830	0.157	9.892	18.025	8.026
2022-07-03 1:15	818101	8.131	-116.348	18.003	282.153	325.678	0.157	8.594	18.003	8.039
2022-07-03 1:30	819001	8.132	-116.365	17.985	282.153	325.807	0.157	9.482	17.985	8.072
2022-07-03 1:45	819901	8.135	-116.527	17.964	282.096	325.889	0.157	9.555	17.964	8.109
2022-07-03 2:00	820801	8.149	-117.304	17.940	282.003	325.959	0.157	9.141	17.940	8.131
2022-07-03 2:15	821701	8.145	-117.068	17.929	281.945	325.970	0.157	10.908	17.929	8.169
2022-07-03 2:30	822601	8.150	-117.385	17.909	281.918	326.081	0.157	9.455	17.909	8.206
2022-07-03 2:45	823501	8.155	-117.657	17.892	281.762	326.024	0.157	9.855	17.892	8.240
2022-07-03 3:00	824401	8.171	-118.496	17.876	281.716	326.085	0.157	9.745	17.876	8.284
2022-07-03 3:15	825301	8.173	-118.613	17.857	281.661	326.159	0.157	9.327	17.857	8.326
2022-07-03 3:30	826201	8.177	-118.837	17.839	281.540	326.151	0.157	10.060	17.839	8.358
2022-07-03 3:45	827101	8.182	-119.100	17.816	281.374	326.125	0.157	9.891	17.816	8.381
2022-07-03 4:00	828001	8.193	-119.741	17.796	281.444	326.348	0.157	12.218	17.796	8.417
2022-07-03 4:15	828901	8.193	-119.727	17.780	281.217	326.202	0.157	10.148	17.780	8.453
2022-07-03 4:30	829801	8.198	-119.975	17.758	281.083	326.205	0.157	10.009	17.758	8.470
2022-07-03 4:45	830701	8.202	-120.232	17.741	280.961	326.184	0.157	10.339	17.741	8.499

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-03 5:00	831601	8.213	-120.833	17.720	281.046	326.437	0.157	10.658	17.720	8.518
2022-07-03 5:15	832501	8.209	-120.561	17.711	280.879	326.304	0.157	8.656	17.711	8.542
2022-07-03 5:30	833401	8.218	-121.086	17.696	280.767	326.287	0.157	11.444	17.696	8.563
2022-07-03 5:45	834301	8.222	-121.319	17.683	280.664	326.263	0.157	9.362	17.683	8.586
2022-07-03 6:00	835201	8.240	-122.309	17.674	280.845	326.539	0.157	12.469	17.674	8.613
2022-07-03 6:15	836101	8.234	-121.949	17.654	280.580	326.371	0.157	9.811	17.654	8.635
2022-07-03 6:30	837001	8.240	-122.313	17.642	280.436	326.293	0.157	8.952	17.642	8.654
2022-07-03 6:45	837901	8.244	-122.540	17.630	280.523	326.484	0.157	8.701	17.630	8.669
2022-07-03 7:00	838801	8.260	-123.410	17.616	280.393	326.435	0.157	13.021	17.616	8.693
2022-07-03 7:15	839701	8.250	-122.848	17.604	280.389	326.516	0.157	8.534	17.604	8.697
2022-07-03 7:30	840601	8.256	-123.146	17.591	280.187	326.370	0.157	9.286	17.591	8.705
2022-07-03 7:45	841501	8.261	-123.475	17.590	280.279	326.489	0.157	8.822	17.590	8.707
2022-07-03 8:00	842401	8.277	-124.323	17.586	280.382	326.634	0.157	12.961	17.586	8.720
2022-07-03 8:15	843301	8.269	-123.901	17.586	280.265	326.500	0.157	8.440	17.586	8.725
2022-07-03 8:30	844201	8.269	-123.920	17.588	280.190	326.400	0.157	9.296	17.588	8.733
2022-07-03 8:45	845101	8.278	-124.414	17.598	280.514	326.703	0.157	10.681	17.598	8.745
2022-07-03 9:00	846001	8.290	-125.101	17.624	280.741	326.777	0.157	12.184	17.624	8.754
2022-07-03 9:15	846901	8.286	-124.905	17.656	281.242	327.127	0.157	7.670	17.656	8.755
2022-07-03 9:30	847801	8.290	-125.127	17.687	281.495	327.201	0.157	10.021	17.687	8.773
2022-07-03 9:45	848701	8.297	-125.525	17.717	281.512	327.001	0.157	9.274	17.717	8.773
2022-07-03 10:00	849601	8.312	-126.348	17.747	281.642	326.931	0.157	11.017	17.747	8.780
2022-07-03 10:15	850501	8.300	-125.709	17.768	281.665	326.804	0.157	9.359	17.768	8.794
2022-07-03 10:30	851401	8.308	-126.190	17.792	281.761	326.746	0.157	8.871	17.792	8.813
2022-07-03 10:45	852301	8.314	-126.529	17.822	281.878	326.662	0.157	9.886	17.822	8.815
2022-07-03 11:00	853201	8.328	-127.308	17.856	282.236	326.835	0.157	10.681	17.856	8.818
2022-07-03 11:15	854101	8.323	-127.044	17.875	282.285	326.749	0.157	8.380	17.875	8.824
2022-07-03 11:30	855001	8.320	-126.915	17.914	282.498	326.713	0.157	8.489	17.914	8.826
2022-07-03 11:45	855901	8.320	-126.917	17.954	282.727	326.691	0.157	9.448	17.954	8.823
2022-07-03 12:00	856801	8.331	-127.542	17.978	282.807	326.615	0.157	10.411	17.978	8.816
2022-07-03 12:15	857701	8.323	-127.101	18.036	283.130	326.567	0.157	11.239	18.036	8.821
2022-07-03 12:30	858601	8.321	-127.044	18.062	283.319	326.600	0.157	9.460	18.062	8.800
2022-07-03 12:45	859501	8.323	-127.163	18.175	284.125	326.713	0.157	11.172	18.175	8.812
2022-07-03 13:00	860401	8.335	-127.904	18.305	284.982	326.768	0.157	11.540	18.305	8.805
2022-07-03 13:15	861301	8.322	-127.232	18.402	285.556	326.728	0.157	9.365	18.402	8.784
2022-07-03 13:30	862201	8.320	-127.175	18.499	286.177	326.751	0.157	9.945	18.499	8.787
2022-07-03 13:45	863101	8.317	-127.015	18.608	286.926	326.826	0.157	9.402	18.608	8.762
2022-07-03 14:00	864001	8.330	-127.764	18.652	287.339	326.984	0.157	11.607	18.652	8.763
2022-07-03 14:15	864901	8.322	-127.313	18.670	287.363	326.887	0.157	10.448	18.670	8.758
2022-07-03 14:30	865801	8.314	-126.889	18.645	287.293	326.980	0.157	9.590	18.645	8.728
2022-07-03 14:45	866701	8.316	-127.034	18.720	287.642	326.846	0.157	11.296	18.720	8.735
2022-07-03 15:00	867601	8.314	-126.908	18.746	288.065	327.144	0.158	9.740	18.746	8.700
2022-07-03 15:15	868501	8.302	-126.221	18.752	288.011	327.041	0.157	11.872	18.752	8.682
2022-07-03 15:30	869401	8.291	-125.587	18.716	287.978	327.255	0.158	10.455	18.716	8.588
2022-07-03 15:45	870301	8.295	-125.833	18.762	288.360	327.367	0.158	10.622	18.762	8.613

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-03 16:00	871201	8.297	-126.019	18.842	289.039	327.570	0.158	11.170	18.842	8.585
2022-07-03 16:15	872101	8.282	-125.198	18.938	289.477	327.385	0.158	10.596	18.938	8.574
2022-07-03 16:30	873001	8.269	-124.488	18.998	290.144	327.713	0.158	10.666	18.998	8.480
2022-07-03 16:45	873901	8.280	-125.153	19.129	291.017	327.772	0.158	9.464	19.129	8.562
2022-07-03 17:00	874801	8.275	-124.922	19.180	291.426	327.872	0.158	14.263	19.180	8.522
2022-07-03 17:15	875701	8.266	-124.395	19.205	291.546	327.835	0.158	9.514	19.205	8.505
2022-07-03 17:30	876601	8.260	-124.087	19.217	291.842	328.082	0.158	9.422	19.217	8.489
2022-07-03 17:45	877501	8.255	-123.844	19.278	292.049	327.883	0.158	10.124	19.278	8.487
2022-07-03 18:00	878401	8.259	-124.061	19.279	292.405	328.274	0.158	12.145	19.279	8.466
2022-07-03 18:15	879301	8.250	-123.570	19.316	292.572	328.202	0.158	12.038	19.316	8.450
2022-07-03 18:30	880201	8.239	-122.991	19.372	293.013	328.301	0.158	8.733	19.372	8.434
2022-07-03 18:45	881101	8.239	-122.948	19.384	293.174	328.403	0.158	9.329	19.384	8.425
2022-07-03 19:00	882001	8.239	-122.950	19.394	293.306	328.477	0.158	10.577	19.394	8.408
2022-07-03 19:15	882901	8.228	-122.366	19.396	293.422	328.591	0.158	9.151	19.396	8.391
2022-07-03 19:30	883801	8.219	-121.853	19.373	293.329	328.652	0.158	9.708	19.373	8.361
2022-07-03 19:45	884701	8.215	-121.567	19.326	293.188	328.820	0.158	9.039	19.326	8.326
2022-07-03 20:00	885601	8.218	-121.739	19.280	293.152	329.108	0.158	9.982	19.280	8.294
2022-07-03 20:15	886501	8.206	-121.038	19.245	292.667	328.810	0.158	8.687	19.245	8.299
2022-07-03 20:30	887401	8.207	-121.093	19.228	292.800	329.080	0.158	10.144	19.228	8.295
2022-07-03 20:45	888301	8.203	-120.866	19.201	292.650	329.101	0.158	8.834	19.201	8.295
2022-07-03 21:00	889201	8.208	-121.148	19.153	292.432	329.197	0.159	10.877	19.153	8.288
2022-07-03 21:15	890101	8.201	-120.709	19.129	292.176	329.081	0.158	7.829	19.129	8.296
2022-07-03 21:30	891001	8.196	-120.451	19.107	292.111	329.159	0.159	7.893	19.107	8.293
2022-07-03 21:45	891901	8.193	-120.251	19.076	292.063	329.328	0.159	8.369	19.076	8.303
2022-07-03 22:00	892801	8.200	-120.623	19.063	292.060	329.415	0.159	11.576	19.063	8.303
2022-07-03 22:15	893701	8.191	-120.130	19.031	291.961	329.533	0.159	8.516	19.031	8.312
2022-07-03 22:30	894601	8.188	-119.944	18.988	291.699	329.540	0.159	9.860	18.988	8.321
2022-07-03 22:45	895501	8.190	-120.049	18.956	291.532	329.576	0.159	8.140	18.956	8.335
2022-07-03 23:00	896401	8.197	-120.432	18.917	291.405	329.713	0.159	9.453	18.917	8.334
2022-07-03 23:15	897301	8.196	-120.344	18.883	291.107	329.618	0.159	8.115	18.883	8.352
2022-07-03 23:30	898201	8.191	-120.068	18.844	290.886	329.648	0.159	7.619	18.844	8.373
2022-07-03 23:45	899101	8.197	-120.342	18.798	290.665	329.723	0.159	7.060	18.798	8.385
2022-07-04 0:00	900001	8.203	-120.683	18.760	290.622	329.947	0.159	11.030	18.760	8.393
2022-07-04 0:15	900901	8.199	-120.435	18.715	290.198	329.786	0.159	8.176	18.715	8.407
2022-07-04 0:30	901801	8.201	-120.540	18.659	289.776	329.708	0.159	9.996	18.659	8.424
2022-07-04 0:45	902701	8.200	-120.461	18.614	289.581	329.810	0.159	7.788	18.614	8.441
2022-07-04 1:00	903601	8.206	-120.769	18.564	289.521	330.096	0.159	9.190	18.564	8.443
2022-07-04 1:15	904501	8.200	-120.401	18.523	289.112	329.925	0.159	7.988	18.523	8.466
2022-07-04 1:30	905401	8.204	-120.594	18.471	288.838	329.986	0.159	7.486	18.471	8.474
2022-07-04 1:45	906301	8.200	-120.380	18.423	288.544	329.997	0.159	7.143	18.423	8.469
2022-07-04 2:00	907201	8.212	-121.050	18.371	288.341	330.141	0.159	9.263	18.371	8.476
2022-07-04 2:15	908101	8.198	-120.215	18.329	287.981	330.034	0.159	9.010	18.329	8.470
2022-07-04 2:30	909001	8.201	-120.363	18.292	287.776	330.062	0.159	7.479	18.292	8.467
2022-07-04 2:45	909901	8.198	-120.175	18.269	287.680	330.125	0.159	6.806	18.269	8.461

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-04 3:00	910801	8.204	-120.547	18.245	287.655	330.262	0.159	8.926	18.245	8.469
2022-07-04 3:15	911701	8.197	-120.125	18.228	287.676	330.414	0.159	9.906	18.228	8.470
2022-07-04 3:30	912601	8.200	-120.263	18.217	287.534	330.331	0.159	8.099	18.217	8.482
2022-07-04 3:45	913501	8.198	-120.165	18.201	287.761	330.709	0.159	8.110	18.201	8.489
2022-07-04 4:00	914401	8.214	-121.062	18.200	287.679	330.618	0.159	9.058	18.200	8.507
2022-07-04 4:15	915301	8.207	-120.656	18.199	287.783	330.744	0.159	8.726	18.199	8.522
2022-07-04 4:30	916201	8.211	-120.897	18.199	287.844	330.819	0.159	8.813	18.199	8.545
2022-07-04 4:45	917101	8.213	-121.002	18.206	287.962	330.903	0.159	8.012	18.206	8.556
2022-07-04 5:00	918001	8.226	-121.746	18.207	288.249	331.225	0.159	8.748	18.207	8.572
2022-07-04 5:15	918901	8.223	-121.562	18.212	288.141	331.065	0.159	10.545	18.212	8.588
2022-07-04 5:30	919801	8.225	-121.670	18.214	288.147	331.059	0.159	9.227	18.214	8.596
2022-07-04 5:45	920701	8.227	-121.827	18.218	288.254	331.151	0.159	9.075	18.218	8.618
2022-07-04 6:00	921601	8.237	-122.364	18.221	288.697	331.638	0.160	9.197	18.221	8.640
2022-07-04 6:15	922501	8.236	-122.340	18.225	288.549	331.440	0.160	8.782	18.225	8.649
2022-07-04 6:30	923401	8.240	-122.526	18.233	288.711	331.569	0.160	8.397	18.233	8.670
2022-07-04 6:45	924301	8.240	-122.540	18.250	288.827	331.573	0.160	11.802	18.250	8.684
2022-07-04 7:00	925201	8.255	-123.377	18.268	289.204	331.880	0.160	8.662	18.268	8.712
2022-07-04 7:15	926101	8.247	-122.969	18.283	289.233	331.798	0.160	7.723	18.283	8.712
2022-07-04 7:30	927001	8.251	-123.208	18.307	289.480	331.908	0.160	7.960	18.307	8.723
2022-07-04 7:45	927901	8.257	-123.527	18.338	289.766	332.015	0.160	10.745	18.338	8.728
2022-07-04 8:00	928801	8.268	-124.180	18.368	290.233	332.330	0.160	11.895	18.368	8.732
2022-07-04 8:15	929701	8.264	-123.949	18.397	290.526	332.458	0.160	8.605	18.397	8.743
2022-07-04 8:30	930601	8.265	-124.023	18.440	290.724	332.371	0.160	8.562	18.440	8.745
2022-07-04 8:45	931501	8.266	-124.118	18.483	291.136	332.529	0.160	7.790	18.483	8.746
2022-07-04 9:00	932401	8.283	-125.086	18.549	291.796	332.805	0.160	10.316	18.549	8.753
2022-07-04 9:15	933301	8.278	-124.822	18.615	292.273	332.870	0.160	8.860	18.615	8.754
2022-07-04 9:30	934201	8.281	-125.024	18.676	292.712	332.924	0.160	8.462	18.676	8.777
2022-07-04 9:45	935101	8.288	-125.446	18.746	293.273	333.059	0.160	9.289	18.746	8.787
2022-07-04 10:00	936001	8.296	-125.911	18.809	293.970	333.396	0.161	7.812	18.809	8.794
2022-07-04 10:15	936901	8.293	-125.806	18.882	294.357	333.304	0.161	8.019	18.882	8.805
2022-07-04 10:30	937801	8.292	-125.775	18.957	294.966	333.451	0.161	6.989	18.957	8.830
2022-07-04 10:45	938701	8.304	-126.503	19.026	295.672	333.755	0.161	7.481	19.026	8.843
2022-07-04 11:00	939601	8.313	-127.039	19.109	296.308	333.878	0.161	8.260	19.109	8.851
2022-07-04 11:15	940501	8.306	-126.667	19.205	297.040	334.007	0.161	8.029	19.205	8.858
2022-07-04 11:30	941401	8.311	-126.998	19.295	297.807	334.228	0.161	6.928	19.295	8.862
2022-07-04 11:45	942301	8.312	-127.048	19.361	298.448	334.473	0.161	7.844	19.361	8.845
2022-07-04 12:00	943201	8.318	-127.463	19.469	299.432	334.799	0.161	9.762	19.469	8.862
2022-07-04 12:15	944101	8.319	-127.575	19.557	300.011	334.819	0.161	7.484	19.557	8.842
2022-07-04 12:30	945001	8.319	-127.606	19.625	300.822	335.236	0.162	8.184	19.625	8.844
2022-07-04 12:45	945901	8.315	-127.399	19.707	301.256	335.137	0.161	7.993	19.707	8.814
2022-07-04 13:00	946801	8.328	-128.198	19.821	302.438	335.639	0.162	9.633	19.821	8.831
2022-07-04 13:15	947701	8.330	-128.338	19.898	302.905	335.610	0.162	8.376	19.898	8.842
2022-07-04 13:30	948601	8.328	-128.195	19.904	303.250	335.952	0.162	7.989	19.904	8.768
2022-07-04 13:45	949501	8.325	-128.043	19.943	303.521	335.975	0.162	16.322	19.943	8.762

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-04 14:00	950401	8.331	-128.419	19.943	303.845	336.334	0.162	14.389	19.943	8.728
2022-07-04 14:15	951301	8.329	-128.312	19.953	303.949	336.372	0.162	8.560	19.953	8.748
2022-07-04 14:30	952201	8.328	-128.236	19.957	304.081	336.491	0.162	8.745	19.957	8.725
2022-07-04 14:45	953101	8.329	-128.269	19.942	304.351	336.901	0.162	8.992	19.942	8.690
2022-07-04 15:00	954001	8.324	-127.954	19.885	304.021	336.941	0.162	13.483	19.885	8.630
2022-07-04 15:15	954901	8.316	-127.513	19.826	303.762	337.074	0.162	8.691	19.826	8.584
2022-07-04 15:30	955801	8.324	-127.938	19.797	303.582	337.077	0.162	9.856	19.797	8.616
2022-07-04 15:45	956701	8.318	-127.606	19.767	303.508	337.214	0.163	8.751	19.767	8.585
2022-07-04 16:00	957601	8.318	-127.606	19.752	303.773	337.616	0.163	11.554	19.752	8.544
2022-07-04 16:15	958501	8.321	-127.764	19.745	303.831	337.729	0.163	10.864	19.745	8.535
2022-07-04 16:30	959401	8.317	-127.506	19.749	303.912	337.792	0.163	9.570	19.749	8.514
2022-07-04 16:45	960301	8.308	-127.018	19.706	303.834	338.010	0.163	10.224	19.706	8.451
2022-07-04 17:00	961201	8.313	-127.275	19.728	304.211	338.276	0.163	11.277	19.728	8.456
2022-07-04 17:15	962101	8.306	-126.905	19.727	304.124	338.186	0.163	10.465	19.727	8.423
2022-07-04 17:30	963001	8.301	-126.584	19.717	304.147	338.282	0.163	9.430	19.717	8.369
2022-07-04 17:45	963901	8.294	-126.207	19.707	304.282	338.503	0.163	8.035	19.707	8.333
2022-07-04 18:00	964801	8.297	-126.393	19.693	304.582	338.937	0.163	13.481	19.693	8.296
2022-07-04 18:15	965701	8.294	-126.202	19.712	304.632	338.857	0.163	12.802	19.712	8.309
2022-07-04 18:30	966601	8.297	-126.386	19.746	304.929	338.941	0.163	9.252	19.746	8.335
2022-07-04 18:45	967501	8.290	-126.019	19.781	305.337	339.147	0.163	8.653	19.781	8.300
2022-07-04 19:00	968401	8.291	-126.081	19.788	305.481	339.250	0.164	10.482	19.788	8.282
2022-07-04 19:15	969301	8.276	-125.213	19.778	305.610	339.467	0.164	8.881	19.778	8.226
2022-07-04 19:30	970201	8.268	-124.786	19.769	305.799	339.739	0.164	8.097	19.769	8.206
2022-07-04 19:45	971101	8.269	-124.798	19.769	305.860	339.810	0.164	8.795	19.769	8.189
2022-07-04 20:00	972001	8.271	-124.948	19.769	306.243	340.239	0.164	10.536	19.769	8.161
2022-07-04 20:15	972901	8.258	-124.228	19.767	306.178	340.180	0.164	8.811	19.767	8.136
2022-07-04 20:30	973801	8.258	-124.207	19.769	306.508	340.535	0.164	8.717	19.769	8.109
2022-07-04 20:45	974701	8.252	-123.887	19.758	306.550	340.657	0.164	7.846	19.758	8.071
2022-07-04 21:00	975601	8.252	-123.875	19.746	306.534	340.725	0.164	9.241	19.746	8.049
2022-07-04 21:15	976501	8.242	-123.293	19.735	306.515	340.781	0.164	9.202	19.735	8.032
2022-07-04 21:30	977401	8.239	-123.129	19.718	306.605	341.005	0.164	7.902	19.718	8.007
2022-07-04 21:45	978301	8.241	-123.217	19.709	306.758	341.242	0.165	10.843	19.709	7.983
2022-07-04 22:00	979201	8.238	-123.055	19.691	306.854	341.478	0.165	11.281	19.691	7.971
2022-07-04 22:15	980101	8.231	-122.635	19.677	306.880	341.612	0.165	7.746	19.677	7.946
2022-07-04 22:30	981001	8.226	-122.371	19.652	306.661	341.551	0.165	7.738	19.652	7.936
2022-07-04 22:45	981901	8.223	-122.154	19.625	306.475	341.539	0.165	7.953	19.625	7.937
2022-07-04 23:00	982801	8.227	-122.397	19.593	306.597	341.907	0.165	9.360	19.593	7.921
2022-07-04 23:15	983701	8.219	-121.903	19.557	306.099	341.616	0.165	7.558	19.557	7.902
2022-07-04 23:30	984601	8.220	-121.958	19.530	305.958	341.651	0.165	7.771	19.530	7.907
2022-07-04 23:45	985501	8.214	-121.632	19.491	305.685	341.635	0.165	8.425	19.491	7.893
2022-07-05 0:00	986401	8.213	-121.517	19.462	305.854	342.029	0.165	10.638	19.462	7.883
2022-07-05 0:15	987301	8.210	-121.341	19.420	305.651	342.110	0.165	7.812	19.420	7.874
2022-07-05 0:30	988201	8.203	-120.945	19.388	305.371	342.036	0.165	6.926	19.388	7.872
2022-07-05 0:45	989101	8.209	-121.257	19.364	305.149	341.958	0.165	10.010	19.364	7.874

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-05 1:00	990001	8.213	-121.484	19.329	305.189	342.257	0.165	14.152	19.329	7.864
2022-07-05 1:15	990901	8.200	-120.745	19.294	304.859	342.150	0.165	8.821	19.294	7.872
2022-07-05 1:30	991801	8.203	-120.876	19.263	304.649	342.142	0.165	8.172	19.263	7.860
2022-07-05 1:45	992701	8.201	-120.780	19.231	304.505	342.215	0.165	8.766	19.231	7.862
2022-07-05 2:00	993601	8.204	-120.897	19.192	304.715	342.739	0.165	8.405	19.192	7.850
2022-07-05 2:15	994501	8.193	-120.299	19.163	304.433	342.633	0.165	7.744	19.163	7.836
2022-07-05 2:30	995401	8.190	-120.082	19.131	304.151	342.551	0.165	7.100	19.131	7.831
2022-07-05 2:45	996301	8.183	-119.720	19.099	304.007	342.628	0.165	7.753	19.099	7.825
2022-07-05 3:00	997201	8.193	-120.268	19.067	303.945	342.789	0.165	8.856	19.067	7.817
2022-07-05 3:15	998101	8.183	-119.648	19.031	303.578	342.644	0.165	8.469	19.031	7.807
2022-07-05 3:30	999001	8.181	-119.524	18.996	303.337	342.629	0.165	7.609	18.996	7.799
2022-07-05 3:45	999901	8.180	-119.479	18.963	303.267	342.791	0.165	8.353	18.963	7.784
2022-07-05 4:00	1000801	8.182	-119.593	18.937	303.310	343.037	0.165	10.833	18.937	7.787
2022-07-05 4:15	1001701	8.171	-118.952	18.899	302.862	342.809	0.165	8.176	18.899	7.778
2022-07-05 4:30	1002601	8.166	-118.663	18.872	302.762	342.897	0.165	7.716	18.872	7.774
2022-07-05 4:45	1003501	8.162	-118.411	18.847	302.611	342.914	0.165	7.484	18.847	7.770
2022-07-05 5:00	1004401	8.172	-118.983	18.814	302.365	342.876	0.165	9.046	18.814	7.763
2022-07-05 5:15	1005301	8.159	-118.217	18.797	302.287	342.916	0.165	7.311	18.797	7.748
2022-07-05 5:30	1006201	8.158	-118.136	18.770	302.055	342.853	0.165	9.430	18.770	7.747
2022-07-05 5:45	1007101	8.155	-117.984	18.743	301.900	342.874	0.165	8.463	18.743	7.746
2022-07-05 6:00	1008001	8.158	-118.117	18.718	301.772	342.917	0.165	9.099	18.718	7.738
2022-07-05 6:15	1008901	8.145	-117.388	18.695	301.532	342.816	0.165	8.866	18.695	7.737
2022-07-05 6:30	1009801	8.144	-117.352	18.671	301.280	342.711	0.165	8.231	18.671	7.729
2022-07-05 6:45	1010701	8.140	-117.071	18.650	301.156	342.725	0.165	7.694	18.650	7.737
2022-07-05 7:00	1011601	8.152	-117.779	18.626	301.152	342.896	0.165	11.333	18.626	7.739
2022-07-05 7:15	1012501	8.146	-117.419	18.612	300.959	342.780	0.165	8.715	18.612	7.738
2022-07-05 7:30	1013401	8.140	-117.085	18.593	300.850	342.799	0.165	7.913	18.593	7.740
2022-07-05 7:45	1014301	8.138	-116.947	18.578	300.831	342.892	0.165	8.817	18.578	7.739
2022-07-05 8:00	1015201	8.147	-117.433	18.564	301.037	343.228	0.165	9.106	18.564	7.752
2022-07-05 8:15	1016101	8.130	-116.513	18.549	300.828	343.099	0.165	8.327	18.549	7.752
2022-07-05 8:30	1017001	8.133	-116.668	18.532	300.829	343.231	0.165	8.204	18.532	7.754
2022-07-05 8:45	1017901	8.123	-116.105	18.522	300.786	343.259	0.165	8.207	18.522	7.769
2022-07-05 9:00	1018801	8.140	-117.023	18.512	300.942	343.508	0.166	10.222	18.512	7.781
2022-07-05 9:15	1019701	8.129	-116.415	18.506	300.813	343.409	0.166	9.299	18.506	7.798
2022-07-05 9:30	1020601	8.132	-116.568	18.519	301.000	343.526	0.166	7.603	18.519	7.843
2022-07-05 9:45	1021501	8.139	-117.006	18.520	301.147	343.685	0.166	8.815	18.520	7.843
2022-07-05 10:00	1022401	8.152	-117.702	18.532	301.602	344.112	0.166	14.371	18.532	7.890
2022-07-05 10:15	1023301	8.147	-117.464	18.555	301.591	343.930	0.166	9.555	18.555	7.951
2022-07-05 10:30	1024201	8.156	-117.955	18.608	302.018	344.015	0.166	7.777	18.608	8.024
2022-07-05 10:45	1025101	8.160	-118.237	18.646	302.464	344.243	0.166	8.173	18.646	8.047
2022-07-05 11:00	1026001	8.177	-119.214	18.691	302.865	344.361	0.166	9.287	18.691	8.114
2022-07-05 11:15	1026901	8.175	-119.069	18.722	303.066	344.361	0.166	8.397	18.722	8.114
2022-07-05 11:30	1027801	8.179	-119.343	18.753	303.279	344.368	0.166	8.123	18.753	8.152
2022-07-05 11:45	1028701	8.187	-119.772	18.801	303.806	344.604	0.166	7.831	18.801	8.194

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-05 12:00	1029601	8.204	-120.757	18.850	304.471	345.000	0.166	10.107	18.850	8.241
2022-07-05 12:15	1030501	8.197	-120.442	18.929	304.896	344.888	0.166	9.622	18.929	8.297
2022-07-05 12:30	1031401	8.202	-120.702	18.984	305.396	345.042	0.166	9.303	18.984	8.294
2022-07-05 12:45	1032301	8.208	-121.107	19.046	306.006	345.270	0.166	7.689	19.046	8.328
2022-07-05 13:00	1033201	8.225	-122.063	19.129	306.643	345.371	0.167	9.819	19.129	8.377
2022-07-05 13:15	1034101	8.229	-122.318	19.234	307.299	345.330	0.167	8.775	19.234	8.388
2022-07-05 13:30	1035001	8.224	-122.056	19.275	307.727	345.510	0.167	8.192	19.275	8.367
2022-07-05 13:45	1035901	8.231	-122.526	19.363	308.452	345.666	0.167	9.803	19.363	8.418
2022-07-05 14:00	1036801	8.241	-123.084	19.422	309.178	346.044	0.167	11.506	19.422	8.385
2022-07-05 14:15	1037701	8.245	-123.351	19.516	309.794	346.043	0.167	10.268	19.516	8.434
2022-07-05 14:30	1038601	8.241	-123.186	19.575	310.251	346.116	0.167	10.258	19.575	8.451
2022-07-05 14:45	1039501	8.231	-122.607	19.551	310.218	346.258	0.167	10.129	19.551	8.364
2022-07-05 15:00	1040401	8.251	-123.711	19.591	310.631	346.423	0.167	10.060	19.591	8.412
2022-07-05 15:15	1041301	8.247	-123.508	19.644	310.943	346.380	0.167	9.466	19.644	8.396
2022-07-05 15:30	1042201	8.252	-123.820	19.685	311.307	346.479	0.167	10.728	19.685	8.413
2022-07-05 15:45	1043101	8.262	-124.409	19.757	311.933	346.647	0.167	10.761	19.757	8.441
2022-07-05 16:00	1044001	8.258	-124.171	19.753	312.108	346.874	0.167	11.864	19.753	8.411
2022-07-05 16:15	1044901	8.250	-123.763	19.794	312.612	347.129	0.167	11.385	19.794	8.388
2022-07-05 16:30	1045801	8.252	-123.887	19.868	313.138	347.167	0.167	10.599	19.868	8.429
2022-07-05 16:45	1046701	8.249	-123.725	19.886	313.430	347.359	0.168	11.854	19.886	8.356
2022-07-05 17:00	1047601	8.249	-123.732	19.840	313.336	347.597	0.168	11.736	19.840	8.283
2022-07-05 17:15	1048501	8.249	-123.701	19.829	313.379	347.720	0.168	11.847	19.829	8.271
2022-07-05 17:30	1049401	8.243	-123.360	19.833	313.443	347.767	0.168	10.787	19.833	8.251
2022-07-05 17:45	1050301	8.254	-124.009	19.852	313.761	347.974	0.168	11.025	19.852	8.260
2022-07-05 18:00	1051201	8.253	-123.937	19.861	314.146	348.338	0.168	11.416	19.861	8.222
2022-07-05 18:15	1052101	8.259	-124.302	19.920	314.750	348.570	0.168	12.551	19.920	8.273
2022-07-05 18:30	1053001	8.255	-124.128	19.966	314.917	348.417	0.168	11.397	19.966	8.284
2022-07-05 18:45	1053901	8.249	-123.754	19.952	314.886	348.484	0.168	9.652	19.952	8.243
2022-07-05 19:00	1054801	8.249	-123.768	19.911	314.856	348.754	0.168	14.609	19.911	8.201
2022-07-05 19:15	1055701	8.243	-123.410	19.866	314.828	349.058	0.168	9.709	19.866	8.162
2022-07-05 19:30	1056601	8.239	-123.158	19.836	314.710	349.148	0.168	10.698	19.836	8.166
2022-07-05 19:45	1057501	8.236	-122.983	19.803	314.657	349.331	0.169	14.242	19.803	8.130
2022-07-05 20:00	1058401	8.235	-122.910	19.749	314.463	349.521	0.169	11.446	19.749	8.098
2022-07-05 20:15	1059301	8.229	-122.521	19.695	314.214	349.641	0.169	9.909	19.695	8.058
2022-07-05 20:30	1060201	8.220	-121.994	19.623	313.877	349.801	0.169	12.688	19.623	8.024
2022-07-05 20:45	1061101	8.210	-121.403	19.561	313.563	349.911	0.169	11.253	19.561	7.990
2022-07-05 21:00	1062001	8.218	-121.839	19.512	313.496	350.205	0.169	14.364	19.512	7.953
2022-07-05 21:15	1062901	8.205	-121.057	19.460	313.093	350.142	0.169	9.315	19.460	7.926
2022-07-05 21:30	1063801	8.198	-120.678	19.423	312.939	350.246	0.169	10.193	19.423	7.897
2022-07-05 21:45	1064701	8.194	-120.440	19.398	313.067	350.581	0.169	10.341	19.398	7.869
2022-07-05 22:00	1065601	8.196	-120.525	19.388	313.542	351.186	0.169	10.919	19.388	7.836
2022-07-05 22:15	1066501	8.184	-119.874	19.371	313.340	351.088	0.169	10.026	19.371	7.807
2022-07-05 22:30	1067401	8.181	-119.710	19.350	313.395	351.308	0.169	9.579	19.350	7.785
2022-07-05 22:45	1068301	8.175	-119.352	19.332	313.433	351.487	0.170	9.540	19.332	7.767

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-05 23:00	1069201	8.180	-119.617	19.313	313.609	351.827	0.170	10.362	19.313	7.754
2022-07-05 23:15	1070101	8.171	-119.076	19.296	313.476	351.805	0.170	12.407	19.296	7.734
2022-07-05 23:30	1071001	8.168	-118.899	19.279	313.545	352.007	0.170	9.618	19.279	7.719
2022-07-05 23:45	1071901	8.166	-118.783	19.263	313.554	352.137	0.170	9.624	19.263	7.709
2022-07-06 0:00	1072801	8.171	-119.085	19.240	313.853	352.647	0.170	11.938	19.240	7.698
2022-07-06 0:15	1073701	8.155	-118.175	19.208	313.654	352.670	0.170	11.443	19.208	7.686
2022-07-06 0:30	1074601	8.148	-117.784	19.176	313.384	352.608	0.170	9.782	19.176	7.682
2022-07-06 0:45	1075501	8.152	-117.984	19.137	313.360	352.873	0.170	9.516	19.137	7.672
2022-07-06 1:00	1076401	8.154	-118.077	19.098	313.087	352.866	0.170	10.296	19.098	7.663
2022-07-06 1:15	1077301	8.146	-117.602	19.055	312.803	352.868	0.170	10.167	19.055	7.656
2022-07-06 1:30	1078201	8.141	-117.278	19.017	312.604	352.933	0.170	9.606	19.017	7.640
2022-07-06 1:45	1079101	8.141	-117.266	18.971	312.371	353.021	0.170	11.373	18.971	7.627
2022-07-06 2:00	1080001	8.143	-117.393	18.930	312.284	353.235	0.170	9.607	18.930	7.625
2022-07-06 2:15	1080901	8.134	-116.827	18.892	311.990	353.192	0.170	9.388	18.892	7.621
2022-07-06 2:30	1081801	8.126	-116.365	18.839	311.728	353.306	0.170	8.508	18.839	7.612
2022-07-06 2:45	1082701	8.125	-116.332	18.795	311.402	353.269	0.170	8.926	18.795	7.601
2022-07-06 3:00	1083601	8.128	-116.479	18.750	311.195	353.377	0.170	9.971	18.750	7.590
2022-07-06 3:15	1084501	8.116	-115.740	18.700	310.863	353.387	0.170	9.129	18.700	7.588
2022-07-06 3:30	1085401	8.113	-115.592	18.653	310.663	353.517	0.171	8.954	18.653	7.573
2022-07-06 3:45	1086301	8.112	-115.514	18.607	310.274	353.428	0.170	9.375	18.607	7.563
2022-07-06 4:00	1087201	8.119	-115.898	18.559	310.040	353.535	0.171	8.765	18.559	7.557
2022-07-06 4:15	1088101	8.101	-114.863	18.519	309.703	353.455	0.170	9.853	18.519	7.540
2022-07-06 4:30	1089001	8.098	-114.663	18.476	309.414	353.455	0.170	9.512	18.476	7.525
2022-07-06 4:45	1089901	8.094	-114.431	18.437	309.282	353.608	0.171	9.438	18.437	7.517
2022-07-06 5:00	1090801	8.104	-114.946	18.402	309.018	353.578	0.171	9.453	18.402	7.514
2022-07-06 5:15	1091701	8.088	-114.074	18.370	308.815	353.592	0.171	9.222	18.370	7.503
2022-07-06 5:30	1092601	8.088	-114.055	18.341	308.598	353.566	0.171	9.119	18.341	7.500
2022-07-06 5:45	1093501	8.088	-114.007	18.299	308.417	353.682	0.171	9.716	18.299	7.497
2022-07-06 6:00	1094401	8.097	-114.546	18.276	308.461	353.912	0.171	10.825	18.276	7.496
2022-07-06 6:15	1095301	8.084	-113.800	18.244	308.152	353.811	0.171	9.362	18.244	7.500
2022-07-06 6:30	1096201	8.083	-113.699	18.223	308.018	353.814	0.171	9.637	18.223	7.511
2022-07-06 6:45	1097101	8.085	-113.816	18.206	308.042	353.974	0.171	9.304	18.206	7.517
2022-07-06 7:00	1098001	8.096	-114.453	18.191	308.088	354.148	0.171	10.504	18.191	7.524
2022-07-06 7:15	1098901	8.088	-113.983	18.182	307.958	354.069	0.171	8.597	18.182	7.533
2022-07-06 7:30	1099801	8.085	-113.826	18.171	307.931	354.119	0.171	8.569	18.171	7.547
2022-07-06 7:45	1100701	8.090	-114.086	18.179	307.978	354.111	0.171	10.377	18.179	7.562
2022-07-06 8:00	1101601	8.101	-114.715	18.189	308.318	354.427	0.171	11.352	18.189	7.580
2022-07-06 8:15	1102501	8.090	-114.098	18.193	308.356	354.439	0.171	9.293	18.193	7.590
2022-07-06 8:30	1103401	8.092	-114.195	18.203	308.475	354.497	0.171	10.310	18.203	7.610
2022-07-06 8:45	1104301	8.094	-114.341	18.208	308.487	354.469	0.171	9.505	18.208	7.627
2022-07-06 9:00	1105201	8.104	-114.937	18.248	308.858	354.587	0.171	11.631	18.248	7.650
2022-07-06 9:15	1106101	8.101	-114.772	18.292	309.073	354.491	0.171	10.109	18.292	7.670
2022-07-06 9:30	1107001	8.105	-114.975	18.326	309.515	354.732	0.171	10.129	18.326	7.695
2022-07-06 9:45	1107901	8.108	-115.204	18.352	309.628	354.658	0.171	9.231	18.352	7.726

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-06 10:00	1108801	8.117	-115.719	18.382	309.981	354.832	0.171	11.525	18.382	7.770
2022-07-06 10:15	1109701	8.114	-115.552	18.442	310.418	354.870	0.171	10.533	18.442	7.823
2022-07-06 10:30	1110601	8.123	-116.096	18.487	310.620	354.751	0.171	10.243	18.487	7.876
2022-07-06 10:45	1111501	8.126	-116.279	18.527	310.988	354.862	0.171	10.336	18.527	7.901
2022-07-06 11:00	1112401	8.146	-117.416	18.580	311.323	354.837	0.171	11.558	18.580	7.955
2022-07-06 11:15	1113301	8.142	-117.190	18.631	311.664	354.830	0.171	12.674	18.631	8.015
2022-07-06 11:30	1114201	8.152	-117.824	18.724	312.450	355.002	0.171	11.282	18.724	8.068
2022-07-06 11:45	1115101	8.159	-118.222	18.765	312.681	354.953	0.171	10.454	18.765	8.086
2022-07-06 12:00	1116001	8.178	-119.305	18.858	313.376	355.026	0.171	11.624	18.858	8.134
2022-07-06 12:15	1116901	8.178	-119.343	18.960	313.961	354.906	0.171	12.039	18.960	8.218
2022-07-06 12:30	1117801	8.184	-119.722	19.026	314.472	354.973	0.171	10.976	19.026	8.244
2022-07-06 12:45	1118701	8.191	-120.194	19.162	315.412	354.996	0.171	11.309	19.162	8.303
2022-07-06 13:00	1119601	8.210	-121.295	19.264	316.192	355.098	0.171	9.307	19.264	8.330
2022-07-06 13:15	1120501	8.216	-121.641	19.276	316.085	354.885	0.171	10.674	19.276	8.321
2022-07-06 13:30	1121401	8.211	-121.374	19.319	316.472	354.995	0.171	9.725	19.319	8.345
2022-07-06 13:45	1122301	8.217	-121.727	19.325	316.626	355.115	0.171	9.782	19.325	8.362
2022-07-06 14:00	1123201	8.236	-122.805	19.358	317.026	355.317	0.171	11.190	19.358	8.391
2022-07-06 14:15	1124101	8.236	-122.788	19.369	317.358	355.603	0.172	11.145	19.369	8.399
2022-07-06 14:30	1125001	8.240	-123.045	19.403	317.866	355.915	0.172	9.605	19.403	8.400
2022-07-06 14:45	1125901	8.246	-123.405	19.464	318.416	356.067	0.172	10.399	19.464	8.446
2022-07-06 15:00	1126801	8.255	-123.949	19.523	319.395	356.713	0.172	11.471	19.523	8.454
2022-07-06 15:15	1127701	8.252	-123.787	19.532	319.940	357.250	0.172	11.226	19.532	8.443
2022-07-06 15:30	1128601	8.247	-123.491	19.522	320.295	357.723	0.173	10.676	19.522	8.424
2022-07-06 15:45	1129501	8.257	-124.052	19.561	321.057	358.273	0.173	9.275	19.561	8.458
2022-07-06 16:00	1130401	8.268	-124.674	19.584	321.941	359.086	0.173	12.024	19.584	8.460
2022-07-06 16:15	1131301	8.265	-124.540	19.613	322.683	359.692	0.174	9.101	19.613	8.460
2022-07-06 16:30	1132201	8.261	-124.302	19.595	323.245	360.460	0.174	10.718	19.595	8.440
2022-07-06 16:45	1133101	8.259	-124.183	19.616	323.950	361.078	0.174	9.848	19.616	8.442
2022-07-06 17:00	1134001	8.263	-124.424	19.645	324.994	362.019	0.175	10.153	19.645	8.431
2022-07-06 17:15	1134901	8.261	-124.347	19.641	325.970	363.140	0.175	10.387	19.641	8.422
2022-07-06 17:30	1135801	8.253	-123.849	19.638	327.085	364.403	0.176	10.965	19.638	8.372
2022-07-06 17:45	1136701	8.252	-123.827	19.639	328.261	365.707	0.177	10.151	19.639	8.337
2022-07-06 18:00	1137601	8.253	-123.854	19.632	329.483	367.125	0.177	10.684	19.632	8.317
2022-07-06 18:15	1138501	8.244	-123.358	19.653	330.566	368.169	0.178	9.301	19.653	8.306
2022-07-06 18:30	1139401	8.244	-123.403	19.692	331.990	369.444	0.178	11.412	19.692	8.318
2022-07-06 18:45	1140301	8.242	-123.301	19.716	333.139	370.538	0.179	12.829	19.716	8.281
2022-07-06 19:00	1141201	8.249	-123.665	19.753	334.481	371.733	0.180	9.630	19.753	8.289
2022-07-06 19:15	1142101	8.247	-123.622	19.799	336.064	373.132	0.180	9.615	19.799	8.271
2022-07-06 19:30	1143001	8.230	-122.654	19.797	336.841	374.009	0.181	9.942	19.797	8.227
2022-07-06 19:45	1143901	8.224	-122.278	19.794	337.951	375.268	0.181	10.024	19.794	8.183
2022-07-06 20:00	1144801	8.225	-122.352	19.770	339.270	376.921	0.182	11.186	19.770	8.138
2022-07-06 20:15	1145701	8.218	-121.930	19.733	340.359	378.432	0.183	9.208	19.733	8.106
2022-07-06 20:30	1146601	8.216	-121.772	19.677	341.627	380.291	0.184	14.724	19.677	8.069
2022-07-06 20:45	1147501	8.213	-121.632	19.631	342.515	381.654	0.184	11.665	19.631	8.045

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-06 21:00	1148401	8.213	-121.574	19.599	343.784	383.329	0.185	12.964	19.599	8.016
2022-07-06 21:15	1149301	8.199	-120.797	19.581	344.782	384.585	0.186	9.931	19.581	7.994
2022-07-06 21:30	1150201	8.196	-120.609	19.555	346.339	386.540	0.187	10.003	19.555	7.968
2022-07-06 21:45	1151101	8.194	-120.525	19.555	347.986	388.376	0.188	10.211	19.555	7.946
2022-07-06 22:00	1152001	8.200	-120.857	19.538	349.886	390.642	0.189	12.982	19.538	7.921
2022-07-06 22:15	1152901	8.189	-120.208	19.531	350.967	391.908	0.190	10.432	19.531	7.896
2022-07-06 22:30	1153801	8.188	-120.168	19.513	353.047	394.380	0.191	10.633	19.513	7.882
2022-07-06 22:45	1154701	8.189	-120.168	19.483	353.820	395.492	0.191	9.217	19.483	7.861
2022-07-06 23:00	1155601	8.187	-120.051	19.436	354.871	397.067	0.192	9.793	19.436	7.856
2022-07-06 23:15	1156501	8.184	-119.882	19.392	355.250	397.864	0.193	9.718	19.392	7.837
2022-07-06 23:30	1157401	8.178	-119.524	19.346	356.445	399.599	0.193	11.801	19.346	7.813
2022-07-06 23:45	1158301	8.176	-119.388	19.298	357.032	400.671	0.194	11.619	19.298	7.798
2022-07-07 0:00	1159201	8.179	-119.517	19.248	358.896	403.194	0.195	10.852	19.248	7.798
2022-07-07 0:15	1160101	8.166	-118.797	19.204	360.366	405.223	0.196	13.879	19.204	7.781
2022-07-07 0:30	1161001	8.168	-118.890	19.165	362.095	407.507	0.197	12.893	19.165	7.776
2022-07-07 0:45	1161901	8.161	-118.489	19.141	363.686	409.517	0.198	10.785	19.141	7.780
2022-07-07 1:00	1162801	8.169	-118.906	19.101	366.148	412.638	0.200	9.668	19.101	7.777
2022-07-07 1:15	1163701	8.159	-118.313	19.077	368.364	415.351	0.201	9.125	19.077	7.775
2022-07-07 1:30	1164601	8.156	-118.155	19.055	369.863	417.238	0.202	9.530	19.055	7.773
2022-07-07 1:45	1165501	8.158	-118.256	19.030	371.513	419.329	0.203	10.433	19.030	7.769
2022-07-07 2:00	1166401	8.163	-118.518	19.009	373.619	421.898	0.204	11.621	19.009	7.783
2022-07-07 2:15	1167301	8.151	-117.819	18.980	375.815	424.637	0.206	11.398	18.980	7.774
2022-07-07 2:30	1168201	8.149	-117.700	18.959	376.718	425.858	0.206	10.471	18.959	7.772
2022-07-07 2:45	1169101	8.151	-117.829	18.933	378.345	427.933	0.207	10.183	18.933	7.764
2022-07-07 3:00	1170001	8.156	-118.113	18.913	379.589	429.528	0.208	10.700	18.913	7.778
2022-07-07 3:15	1170901	8.148	-117.638	18.888	381.409	431.822	0.209	9.255	18.888	7.785
2022-07-07 3:30	1171801	8.146	-117.528	18.862	382.320	433.097	0.210	8.671	18.862	7.768
2022-07-07 3:45	1172701	8.144	-117.385	18.833	383.590	434.804	0.211	10.491	18.833	7.780
2022-07-07 4:00	1173601	8.151	-117.784	18.800	384.629	436.292	0.212	12.359	18.800	7.771
2022-07-07 4:15	1174501	8.144	-117.362	18.775	385.117	437.089	0.212	9.911	18.775	7.774
2022-07-07 4:30	1175401	8.141	-117.207	18.748	385.796	438.115	0.213	9.369	18.748	7.772
2022-07-07 4:45	1176301	8.143	-117.295	18.720	386.226	438.870	0.213	7.834	18.720	7.761
2022-07-07 5:00	1177201	8.147	-117.495	18.695	386.659	439.595	0.213	9.038	18.695	7.768
2022-07-07 5:15	1178101	8.138	-116.994	18.659	386.828	440.131	0.213	8.056	18.659	7.763
2022-07-07 5:30	1179001	8.137	-116.920	18.628	387.144	440.794	0.214	7.327	18.628	7.754
2022-07-07 5:45	1179901	8.136	-116.830	18.598	387.096	441.022	0.214	7.574	18.598	7.752
2022-07-07 6:00	1180801	8.133	-116.620	18.496	401.031	457.911	0.222	10.108	18.496	7.728
2022-07-07 6:15	1181701	8.130	-116.496	18.523	390.210	445.300	0.216	8.398	18.523	7.748
2022-07-07 6:30	1182601	8.130	-116.465	18.503	390.522	445.845	0.216	8.487	18.503	7.744
2022-07-07 6:45	1183501	8.129	-116.410	18.481	390.888	446.483	0.217	7.810	18.481	7.749
2022-07-07 7:00	1184401	8.137	-116.868	18.462	392.306	448.283	0.218	9.698	18.462	7.748
2022-07-07 7:15	1185301	8.124	-116.093	18.443	394.675	451.176	0.219	8.234	18.443	7.728
2022-07-07 7:30	1186201	8.122	-115.962	18.391	400.747	458.646	0.223	8.203	18.391	7.715
2022-07-07 7:45	1187101	8.120	-115.848	18.347	409.193	468.763	0.228	8.639	18.347	7.718

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-07 8:00	1188001	8.129	-116.341	18.329	414.816	475.391	0.231	11.586	18.329	7.730
2022-07-07 8:15	1188901	8.121	-115.862	18.299	426.482	489.077	0.238	10.541	18.299	7.725
2022-07-07 8:30	1189801	8.123	-116.041	18.336	410.911	470.843	0.229	8.235	18.336	7.748
2022-07-07 8:45	1190701	8.124	-116.091	18.365	411.448	471.156	0.229	9.206	18.365	7.762
2022-07-07 9:00	1191601	8.135	-116.677	18.358	419.182	480.089	0.233	10.449	18.358	7.788
2022-07-07 9:15	1192501	8.123	-116.012	18.366	417.573	478.155	0.232	8.655	18.366	7.790
2022-07-07 9:30	1193401	8.123	-116.055	18.398	421.528	482.356	0.235	9.459	18.398	7.814
2022-07-07 9:45	1194301	8.127	-116.279	18.442	428.764	490.159	0.238	8.920	18.442	7.849
2022-07-07 10:00	1195201	8.139	-116.990	18.474	441.775	504.681	0.246	12.785	18.474	7.899
2022-07-07 10:15	1196101	8.134	-116.735	18.540	434.941	496.165	0.241	10.533	18.540	7.951
2022-07-07 10:30	1197001	8.144	-117.311	18.561	442.511	504.567	0.246	9.823	18.561	8.031
2022-07-07 10:45	1197901	8.152	-117.776	18.681	432.959	492.391	0.240	7.718	18.681	8.081
2022-07-07 11:00	1198801	8.170	-118.859	18.792	433.715	492.057	0.239	9.962	18.792	8.183
2022-07-07 11:15	1199701	8.168	-118.761	18.830	455.920	516.825	0.252	8.731	18.830	8.235
2022-07-07 11:30	1200601	8.180	-119.488	18.962	433.934	490.503	0.239	7.635	18.962	8.305
2022-07-07 11:45	1201501	8.187	-119.913	19.051	435.359	491.164	0.239	8.207	19.051	8.351
2022-07-07 12:00	1202401	8.197	-120.487	19.066	451.693	509.427	0.248	10.292	19.066	8.400
2022-07-07 12:15	1203301	8.194	-120.325	19.183	432.804	486.906	0.237	8.786	19.183	8.401
2022-07-07 12:30	1204201	8.197	-120.499	19.190	437.078	491.640	0.239	9.357	19.190	8.400
2022-07-07 12:45	1205101	8.199	-120.661	19.205	452.863	509.222	0.248	7.481	19.205	8.368
2022-07-07 13:00	1206001	8.206	-121.083	19.261	439.114	493.179	0.240	9.183	19.261	8.419
2022-07-07 13:15	1206901	8.213	-121.460	19.317	423.643	475.230	0.231	9.139	19.317	8.398
2022-07-07 13:30	1207801	8.214	-121.517	19.327	427.883	479.878	0.233	15.052	19.327	8.377
2022-07-07 13:45	1208701	8.206	-121.071	19.323	463.394	519.747	0.253	9.948	19.323	8.366
2022-07-07 14:00	1209601	8.236	-122.828	19.450	422.647	472.765	0.230	9.352	19.450	8.474
2022-07-07 14:15	1210501	8.233	-122.697	19.529	431.845	482.241	0.235	12.324	19.529	8.494
2022-07-07 14:30	1211401	8.237	-122.972	19.639	439.308	489.419	0.238	8.565	19.639	8.527
2022-07-07 14:45	1212301	8.243	-123.432	19.909	434.195	480.967	0.234	10.017	19.909	8.571
2022-07-07 15:00	1213201	8.249	-123.792	19.933	462.342	511.878	0.250	9.751	19.933	8.578
2022-07-07 15:15	1214101	8.256	-124.242	20.095	431.839	476.475	0.232	8.380	20.095	8.617
2022-07-07 15:30	1215001	8.257	-124.304	20.171	427.546	470.990	0.229	9.246	20.171	8.645
2022-07-07 15:45	1215901	8.253	-124.118	20.242	436.528	480.169	0.234	9.695	20.242	8.607
2022-07-07 16:00	1216801	8.267	-124.936	20.299	429.097	471.427	0.229	9.635	20.299	8.663
2022-07-07 16:15	1217701	8.268	-124.991	20.312	424.185	465.898	0.226	9.406	20.312	8.667
2022-07-07 16:30	1218601	8.265	-124.888	20.434	426.603	467.362	0.227	9.043	20.434	8.655
2022-07-07 16:45	1219501	8.272	-125.320	20.468	422.243	462.255	0.225	9.121	20.468	8.656
2022-07-07 17:00	1220401	8.264	-124.862	20.458	422.497	462.634	0.225	9.654	20.458	8.594
2022-07-07 17:15	1221301	8.263	-124.772	20.475	422.819	462.816	0.225	8.763	20.475	8.595
2022-07-07 17:30	1222201	8.263	-124.776	20.508	431.586	472.090	0.230	8.582	20.508	8.574
2022-07-07 17:45	1223101	8.258	-124.521	20.525	428.964	469.054	0.228	11.687	20.525	8.510
2022-07-07 18:00	1224001	8.265	-124.915	20.544	470.740	514.534	0.251	11.738	20.544	8.490
2022-07-07 18:15	1224901	8.264	-124.884	20.565	408.060	445.826	0.216	8.203	20.565	8.443
2022-07-07 18:30	1225801	8.259	-124.614	20.566	405.692	443.232	0.215	10.099	20.566	8.413
2022-07-07 18:45	1226701	8.259	-124.571	20.566	401.372	438.513	0.213	8.646	20.566	8.407

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-07 19:00	1227601	8.268	-125.110	20.600	421.092	459.731	0.223	8.449	20.600	8.446
2022-07-07 19:15	1228501	8.263	-124.896	20.666	412.148	449.341	0.218	8.861	20.666	8.429
2022-07-07 19:30	1229401	8.261	-124.750	20.688	405.826	442.253	0.215	8.883	20.688	8.368
2022-07-07 19:45	1230301	8.263	-124.865	20.719	398.383	433.861	0.211	8.902	20.719	8.352
2022-07-07 20:00	1231201	8.261	-124.741	20.685	396.471	432.085	0.210	9.350	20.685	8.294
2022-07-07 20:15	1232101	8.253	-124.309	20.633	397.576	433.758	0.210	7.909	20.633	8.278
2022-07-07 20:30	1233001	8.249	-124.049	20.598	398.935	435.557	0.211	8.436	20.598	8.258
2022-07-07 20:45	1233901	8.253	-124.228	20.557	395.054	431.691	0.209	11.875	20.557	8.225
2022-07-07 21:00	1234801	8.254	-124.271	20.484	392.953	430.050	0.209	10.527	20.484	8.205
2022-07-07 21:15	1235701	8.245	-123.761	20.453	380.326	416.497	0.202	7.728	20.453	8.181
2022-07-07 21:30	1236601	8.236	-123.219	20.370	409.739	449.491	0.218	7.765	20.370	8.145
2022-07-07 21:45	1237501	8.236	-123.210	20.340	400.299	439.413	0.213	7.786	20.340	8.110
2022-07-07 22:00	1238401	8.240	-123.432	20.316	385.203	423.053	0.205	7.908	20.316	8.094
2022-07-07 22:15	1239301	8.230	-122.812	20.241	402.917	443.198	0.215	9.787	20.241	8.034
2022-07-07 22:30	1240201	8.228	-122.683	20.223	380.723	418.953	0.203	7.205	20.223	8.029
2022-07-07 22:45	1241101	8.226	-122.540	20.170	394.280	434.352	0.211	6.609	20.170	7.982
2022-07-07 23:00	1242001	8.233	-122.943	20.159	371.833	409.717	0.198	11.607	20.159	7.991
2022-07-07 23:15	1242901	8.222	-122.313	20.123	370.293	408.332	0.198	7.245	20.123	7.951
2022-07-07 23:30	1243801	8.221	-122.263	20.106	365.429	403.110	0.195	7.666	20.106	7.934
2022-07-07 23:45	1244701	8.221	-122.216	20.061	368.303	406.669	0.197	7.565	20.061	7.914
2022-07-08 0:00	1245601	8.224	-122.359	20.012	366.829	405.458	0.196	10.584	20.012	7.894
2022-07-08 0:15	1246501	8.207	-121.431	19.975	368.972	408.149	0.198	8.664	19.975	7.872
2022-07-08 0:30	1247401	8.214	-121.787	19.946	362.676	401.424	0.194	8.866	19.946	7.877
2022-07-08 0:45	1248301	8.212	-121.694	19.913	354.872	393.064	0.190	8.222	19.913	7.843
2022-07-08 1:00	1249201	8.217	-121.956	19.875	353.186	391.512	0.189	13.961	19.875	7.823
2022-07-08 1:15	1250101	8.210	-121.512	19.827	366.890	407.113	0.197	8.840	19.827	7.820
2022-07-08 1:30	1251001	8.209	-121.434	19.780	358.334	398.019	0.193	9.659	19.780	7.825
2022-07-08 1:45	1251901	8.208	-121.341	19.734	354.206	393.813	0.191	6.878	19.734	7.815
2022-07-08 2:00	1252801	8.213	-121.646	19.680	354.868	395.002	0.191	10.151	19.680	7.802
2022-07-08 2:15	1253701	8.208	-121.298	19.629	351.353	391.515	0.189	7.827	19.629	7.797
2022-07-08 2:30	1254601	8.206	-121.207	19.580	352.169	392.833	0.190	7.804	19.580	7.786
2022-07-08 2:45	1255501	8.202	-120.971	19.536	348.163	388.735	0.188	8.467	19.536	7.779
2022-07-08 3:00	1256401	8.209	-121.319	19.489	347.750	388.664	0.188	9.722	19.489	7.774
2022-07-08 3:15	1257301	8.202	-120.916	19.423	349.997	391.724	0.189	9.871	19.423	7.774
2022-07-08 3:30	1258201	8.200	-120.766	19.383	344.897	386.349	0.187	8.684	19.383	7.763
2022-07-08 3:45	1259101	8.197	-120.604	19.340	346.230	388.198	0.188	8.639	19.340	7.752
2022-07-08 4:00	1260001	8.203	-120.909	19.283	345.927	388.329	0.188	11.941	19.283	7.737
2022-07-08 4:15	1260901	8.193	-120.304	19.237	344.692	387.327	0.187	8.358	19.237	7.735
2022-07-08 4:30	1261801	8.189	-120.082	19.181	345.109	388.261	0.188	10.256	19.181	7.729
2022-07-08 4:45	1262701	8.186	-119.865	19.129	345.096	388.683	0.188	9.332	19.129	7.730
2022-07-08 5:00	1263601	8.190	-120.077	19.084	345.229	389.204	0.188	9.594	19.084	7.729
2022-07-08 5:15	1264501	8.181	-119.555	19.024	348.034	392.876	0.190	7.661	19.024	7.708
2022-07-08 5:30	1265401	8.177	-119.321	18.971	347.465	392.682	0.190	7.773	18.971	7.700
2022-07-08 5:45	1266301	8.176	-119.245	18.946	341.941	386.648	0.187	9.364	18.946	7.708

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-08 6:00	1267201	8.185	-119.717	18.907	344.538	389.917	0.189	10.534	18.907	7.719
2022-07-08 6:15	1268101	8.177	-119.236	18.861	346.094	392.069	0.190	9.112	18.861	7.712
2022-07-08 6:30	1269001	8.174	-119.090	18.820	345.844	392.126	0.190	9.987	18.820	7.713
2022-07-08 6:45	1269901	8.171	-118.868	18.790	345.641	392.150	0.190	8.634	18.790	7.717
2022-07-08 7:00	1270801	8.173	-118.976	18.746	347.783	394.965	0.191	9.163	18.746	7.713
2022-07-08 7:15	1271701	8.163	-118.430	18.733	346.290	393.377	0.190	9.599	18.733	7.713
2022-07-08 7:30	1272601	8.166	-118.575	18.721	346.508	393.728	0.190	10.136	18.721	7.703
2022-07-08 7:45	1273501	8.159	-118.213	18.706	346.213	393.517	0.190	9.234	18.706	7.710
2022-07-08 8:00	1274401	8.165	-118.492	18.685	347.162	394.780	0.191	9.538	18.685	7.698
2022-07-08 8:15	1275301	8.161	-118.308	18.681	347.157	394.810	0.191	10.328	18.681	7.701
2022-07-08 8:30	1276201	8.159	-118.196	18.681	348.286	396.095	0.192	10.508	18.681	7.723
2022-07-08 8:45	1277101	8.154	-117.891	18.686	346.450	393.964	0.191	10.081	18.686	7.700
2022-07-08 9:00	1278001	8.160	-118.213	18.690	346.631	394.131	0.191	10.986	18.690	7.688
2022-07-08 9:15	1278901	8.153	-117.857	18.719	346.354	393.571	0.190	10.985	18.719	7.698
2022-07-08 9:30	1279801	8.155	-117.972	18.734	346.520	393.631	0.190	10.247	18.734	7.708
2022-07-08 9:45	1280701	8.150	-117.724	18.761	346.144	392.972	0.190	11.052	18.761	7.753
2022-07-08 10:00	1281601	8.159	-118.222	18.798	346.768	393.369	0.190	13.792	18.798	7.774
2022-07-08 10:15	1282501	8.161	-118.334	18.850	347.735	394.018	0.191	9.532	18.850	7.803
2022-07-08 10:30	1283401	8.160	-118.330	18.920	347.389	393.034	0.190	11.566	18.920	7.833
2022-07-08 10:45	1284301	8.160	-118.375	18.965	347.015	392.222	0.190	10.377	18.965	7.851
2022-07-08 11:00	1285201	8.170	-118.904	19.000	347.677	392.676	0.190	10.706	19.000	7.866
2022-07-08 11:15	1286101	8.160	-118.370	19.012	348.408	393.402	0.190	11.527	19.012	7.857
2022-07-08 11:30	1287001	8.159	-118.332	19.006	348.418	393.464	0.190	11.748	19.006	7.874
2022-07-08 11:45	1287901	8.156	-118.117	18.985	347.728	392.863	0.190	11.038	18.985	7.890
2022-07-08 12:00	1288801	8.166	-118.728	19.036	350.290	395.319	0.191	16.815	19.036	7.921
2022-07-08 12:15	1289701	8.155	-118.113	19.052	350.467	395.385	0.191	11.516	19.052	7.903
2022-07-08 12:30	1290601	8.156	-118.141	19.063	349.924	394.683	0.191	12.658	19.063	7.917
2022-07-08 12:45	1291501	8.156	-118.165	19.074	350.213	394.912	0.191	13.805	19.074	7.910
2022-07-08 13:00	1292401	8.165	-118.678	19.129	349.659	393.820	0.191	16.452	19.129	7.919
2022-07-08 13:15	1293301	8.157	-118.279	19.214	349.934	393.415	0.190	20.862	19.214	7.955
2022-07-08 13:30	1294201	8.161	-118.573	19.353	350.361	392.716	0.190	12.055	19.353	7.974
2022-07-08 13:45	1295101	8.164	-118.775	19.478	350.846	392.214	0.190	10.415	19.478	7.985
2022-07-08 14:00	1296001	8.172	-119.271	19.622	350.892	391.060	0.189	12.970	19.622	8.007
2022-07-08 14:15	1296901	8.160	-118.642	19.701	351.051	390.581	0.189	10.941	19.701	8.007
2022-07-08 14:30	1297801	8.164	-118.899	19.787	350.253	388.984	0.188	11.411	19.787	8.034
2022-07-08 14:45	1298701	8.166	-119.028	19.864	350.577	388.704	0.188	12.066	19.864	8.055
2022-07-08 15:00	1299601	8.163	-118.918	19.948	351.964	389.557	0.188	13.385	19.948	8.020
2022-07-08 15:15	1300501	8.157	-118.601	19.953	349.819	387.136	0.187	13.833	19.953	8.021
2022-07-08 15:30	1301401	8.163	-118.930	19.952	349.247	386.517	0.187	14.415	19.952	8.079
2022-07-08 15:45	1302301	8.174	-119.600	20.074	350.134	386.501	0.187	14.119	20.074	8.134
2022-07-08 16:00	1303201	8.178	-119.822	20.098	349.964	386.115	0.187	13.823	20.098	8.152
2022-07-08 16:15	1304101	8.174	-119.653	20.171	350.015	385.582	0.186	15.438	20.171	8.137
2022-07-08 16:30	1305001	8.174	-119.660	20.250	349.215	384.059	0.186	13.633	20.250	8.176
2022-07-08 16:45	1305901	8.179	-119.963	20.271	348.304	382.889	0.185	14.372	20.271	8.213

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-08 17:00	1306801	8.183	-120.165	20.294	350.270	384.866	0.186	16.688	20.294	8.126
2022-07-08 17:15	1307701	8.178	-119.922	20.285	348.747	383.262	0.185	15.670	20.285	8.163
2022-07-08 17:30	1308601	8.194	-120.807	20.327	350.502	384.850	0.186	18.129	20.327	8.265
2022-07-08 17:45	1309501	8.193	-120.783	20.356	349.723	383.759	0.186	15.873	20.356	8.286
2022-07-08 18:00	1310401	8.195	-120.907	20.387	352.346	386.394	0.187	22.442	20.387	8.303
2022-07-08 18:15	1311301	8.199	-121.107	20.384	355.478	389.850	0.189	13.899	20.384	8.315
2022-07-08 18:30	1312201	8.199	-121.105	20.379	351.541	385.574	0.186	14.102	20.379	8.321
2022-07-08 18:45	1313101	8.204	-121.429	20.378	354.041	388.323	0.188	15.017	20.378	8.335
2022-07-08 19:00	1314001	8.211	-121.827	20.404	356.498	390.804	0.189	14.227	20.404	8.332
2022-07-08 19:15	1314901	8.196	-120.988	20.387	354.134	388.348	0.188	16.826	20.387	8.283
2022-07-08 19:30	1315801	8.207	-121.567	20.376	359.923	394.791	0.191	13.876	20.376	8.296
2022-07-08 19:45	1316701	8.208	-121.622	20.355	361.932	397.169	0.192	25.905	20.355	8.252
2022-07-08 20:00	1317601	8.218	-122.175	20.356	364.897	400.413	0.194	16.146	20.356	8.224
2022-07-08 20:15	1318501	8.214	-121.951	20.350	359.671	394.727	0.191	16.323	20.350	8.213
2022-07-08 20:30	1319401	8.214	-121.949	20.341	365.669	401.391	0.194	15.049	20.341	8.194
2022-07-08 20:45	1320301	8.214	-121.975	20.331	361.490	396.882	0.192	21.675	20.331	8.167
2022-07-08 21:00	1321201	8.217	-122.111	20.322	375.741	412.609	0.200	21.953	20.322	8.143
2022-07-08 21:15	1322101	8.213	-121.889	20.317	354.758	389.608	0.188	21.458	20.317	8.105
2022-07-08 21:30	1323001	8.213	-121.913	20.311	361.484	397.044	0.192	23.034	20.311	8.084
2022-07-08 21:45	1323901	8.211	-121.799	20.310	361.169	396.708	0.192	24.110	20.310	8.057
2022-07-08 22:00	1324801	8.213	-121.901	20.295	364.196	400.157	0.194	17.521	20.295	8.039
2022-07-08 22:15	1325701	8.205	-121.424	20.299	367.683	403.949	0.196	16.430	20.299	7.998
2022-07-08 22:30	1326601	8.204	-121.357	20.299	363.966	399.870	0.194	17.066	20.299	7.997
2022-07-08 22:45	1327501	8.200	-121.164	20.288	364.448	400.489	0.194	16.844	20.288	7.970
2022-07-08 23:00	1328401	8.211	-121.777	20.279	362.075	397.958	0.193	18.542	20.279	7.955
2022-07-08 23:15	1329301	8.208	-121.603	20.261	360.115	395.956	0.192	16.594	20.261	7.942
2022-07-08 23:30	1330201	8.209	-121.617	20.243	353.860	389.222	0.188	20.965	20.243	7.938
2022-07-08 23:45	1331101	8.208	-121.577	20.231	353.728	389.177	0.188	18.039	20.231	7.922
2022-07-09 0:00	1332001	8.213	-121.870	20.220	354.454	390.062	0.189	18.081	20.220	7.912
2022-07-09 0:15	1332901	8.204	-121.355	20.201	351.147	386.578	0.187	19.218	20.201	7.898
2022-07-09 0:30	1333801	8.208	-121.560	20.185	349.963	385.408	0.186	20.078	20.185	7.883
2022-07-09 0:45	1334701	8.208	-121.529	20.146	357.702	394.251	0.191	16.643	20.146	7.873
2022-07-09 1:00	1335601	8.216	-122.020	20.153	348.206	383.731	0.186	20.540	20.153	7.872
2022-07-09 1:15	1336501	8.213	-121.808	20.139	349.146	384.878	0.186	21.037	20.139	7.860
2022-07-09 1:30	1337401	8.212	-121.739	20.104	350.369	386.512	0.187	28.119	20.104	7.846
2022-07-09 1:45	1338301	8.213	-121.779	20.082	351.495	387.934	0.188	21.978	20.082	7.842
2022-07-09 2:00	1339201	8.217	-122.027	20.049	352.199	388.979	0.188	14.637	20.049	7.839
2022-07-09 2:15	1340101	8.203	-121.198	20.060	344.030	379.869	0.184	21.085	20.060	7.830
2022-07-09 2:30	1341001	8.211	-121.632	20.013	345.300	381.654	0.185	21.291	20.013	7.806
2022-07-09 2:45	1341901	8.210	-121.615	19.991	346.166	382.785	0.185	20.609	19.991	7.819
2022-07-09 3:00	1342801	8.214	-121.813	19.943	347.309	384.441	0.186	22.801	19.943	7.809
2022-07-09 3:15	1343701	8.213	-121.734	19.926	343.442	380.298	0.184	16.478	19.926	7.794
2022-07-09 3:30	1344601	8.206	-121.310	19.902	340.966	377.751	0.183	20.508	19.902	7.790
2022-07-09 3:45	1345501	8.210	-121.529	19.860	342.602	379.896	0.184	21.426	19.860	7.785

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-09 4:00	1346401	8.212	-121.632	19.832	341.190	378.554	0.183	21.199	19.832	7.774
2022-07-09 4:15	1347301	8.208	-121.365	19.789	339.496	377.020	0.182	23.602	19.789	7.770
2022-07-09 4:30	1348201	8.202	-121.040	19.759	337.923	375.511	0.181	23.560	19.759	7.762
2022-07-09 4:45	1349101	8.203	-121.102	19.716	339.752	377.892	0.183	24.159	19.716	7.762
2022-07-09 5:00	1350001	8.207	-121.312	19.680	338.035	376.266	0.182	26.945	19.680	7.749
2022-07-09 5:15	1350901	8.202	-121.021	19.648	336.305	374.601	0.181	16.238	19.648	7.746
2022-07-09 5:30	1351801	8.201	-120.904	19.608	335.519	374.042	0.181	12.249	19.608	7.741
2022-07-09 5:45	1352701	8.203	-121.002	19.559	335.758	374.699	0.181	13.691	19.559	7.744
2022-07-09 6:00	1353601	8.210	-121.398	19.511	337.601	377.140	0.182	12.931	19.511	7.728
2022-07-09 6:15	1354501	8.197	-120.647	19.478	335.108	374.619	0.181	12.480	19.478	7.728
2022-07-09 6:30	1355401	8.196	-120.547	19.436	335.899	375.844	0.182	11.446	19.436	7.724
2022-07-09 6:45	1356301	8.191	-120.256	19.405	334.644	374.683	0.181	12.827	19.405	7.726
2022-07-09 7:00	1357201	8.203	-120.933	19.375	334.680	374.966	0.181	12.689	19.375	7.725
2022-07-09 7:15	1358102	8.198	-120.656	19.336	335.876	376.623	0.182	14.408	19.336	7.711
2022-07-09 7:30	1359002	8.193	-120.337	19.290	336.498	377.688	0.183	16.060	19.290	7.692
2022-07-09 7:45	1359902	8.188	-120.034	19.259	340.602	382.550	0.185	21.436	19.259	7.697
2022-07-09 8:00	1360802	8.198	-120.585	19.265	334.486	375.631	0.181	12.107	19.265	7.693
2022-07-09 8:15	1361702	8.190	-120.120	19.225	334.535	376.009	0.182	23.326	19.225	7.685
2022-07-09 8:30	1362602	8.187	-119.977	19.197	338.156	380.309	0.184	24.583	19.197	7.672
2022-07-09 8:45	1363502	8.184	-119.801	19.176	334.606	376.489	0.182	21.675	19.176	7.679
2022-07-09 9:00	1364402	8.189	-120.056	19.160	334.679	376.695	0.182	26.577	19.160	7.680
2022-07-09 9:15	1365302	8.181	-119.586	19.169	335.476	377.525	0.182	36.549	19.169	7.694
2022-07-09 9:30	1366202	8.184	-119.786	19.181	339.142	381.552	0.184	33.014	19.181	7.696
2022-07-09 9:45	1367102	8.185	-119.822	19.175	336.426	378.542	0.183	36.591	19.175	7.703
2022-07-09 10:00	1368002	8.190	-120.137	19.196	335.476	377.300	0.182	37.263	19.196	7.726
2022-07-09 10:15	1368902	8.179	-119.503	19.209	336.576	378.434	0.183	41.792	19.209	7.734
2022-07-09 10:30	1369802	8.172	-119.145	19.216	336.268	378.030	0.183	10.504	19.216	7.733
2022-07-09 10:45	1370702	8.171	-119.083	19.246	337.213	378.847	0.183	9.518	19.246	7.740
2022-07-09 11:00	1371602	8.176	-119.371	19.264	338.891	380.590	0.184	10.835	19.264	7.746
2022-07-09 11:15	1372502	8.167	-118.883	19.275	338.693	380.277	0.184	18.147	19.275	7.744
2022-07-09 11:30	1373402	8.172	-119.152	19.323	339.758	381.078	0.184	24.465	19.323	7.763
2022-07-09 11:45	1374302	8.165	-118.821	19.404	339.613	380.256	0.184	25.230	19.404	7.782
2022-07-09 12:00	1375202	8.171	-119.138	19.437	340.935	381.468	0.184	27.994	19.437	7.797
2022-07-09 12:15	1376102	8.167	-118.990	19.512	342.490	382.597	0.185	24.447	19.512	7.807
2022-07-09 12:30	1377002	8.166	-118.906	19.563	341.761	381.364	0.184	29.101	19.563	7.828
2022-07-09 12:45	1377902	8.167	-119.021	19.600	342.834	382.259	0.185	36.620	19.600	7.832
2022-07-09 13:00	1378802	8.177	-119.593	19.678	344.267	383.219	0.185	23.796	19.678	7.872
2022-07-09 13:15	1379702	8.168	-119.138	19.832	345.156	382.958	0.185	28.052	19.832	7.895
2022-07-09 13:30	1380602	8.170	-119.283	19.907	345.879	383.151	0.185	26.109	19.907	7.925
2022-07-09 13:45	1381502	8.159	-118.690	19.943	345.665	382.621	0.185	29.204	19.943	7.889
2022-07-09 14:00	1382402	8.173	-119.505	20.009	347.760	384.402	0.186	28.038	20.009	7.925
2022-07-09 14:15	1383302	8.162	-118.937	20.125	346.687	382.281	0.185	23.852	20.125	7.952
2022-07-09 14:30	1384202	8.172	-119.553	20.204	349.085	384.287	0.186	24.598	20.204	7.966
2022-07-09 14:45	1385102	8.168	-119.331	20.245	348.385	383.188	0.185	24.795	20.245	7.987

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-09 15:00	1386002	8.175	-119.689	20.227	347.559	382.425	0.185	24.922	20.227	8.006
2022-07-09 15:15	1386902	8.172	-119.584	20.383	348.953	382.703	0.185	25.013	20.383	8.021
2022-07-09 15:30	1387802	8.172	-119.593	20.382	349.569	383.381	0.185	30.239	20.382	8.051
2022-07-09 15:45	1388702	8.173	-119.641	20.344	348.239	382.233	0.185	40.277	20.344	8.055
2022-07-09 16:00	1389602	8.179	-119.977	20.373	349.117	382.965	0.185	23.629	20.373	8.100
2022-07-09 16:15	1390502	8.187	-120.542	20.561	350.651	383.134	0.185	22.432	20.561	8.108
2022-07-09 16:30	1391402	8.185	-120.399	20.521	349.847	382.573	0.185	31.961	20.521	8.117
2022-07-09 16:45	1392302	8.190	-120.654	20.518	349.377	382.087	0.185	26.481	20.518	8.147
2022-07-09 17:00	1393202	8.194	-120.914	20.597	351.234	383.482	0.185	29.264	20.597	8.165
2022-07-09 17:15	1394102	8.193	-120.828	20.533	349.748	382.375	0.185	16.879	20.533	8.186
2022-07-09 17:30	1395002	8.189	-120.618	20.496	348.853	381.687	0.185	18.673	20.496	8.176
2022-07-09 17:45	1395902	8.197	-121.064	20.533	349.278	381.859	0.185	20.662	20.533	8.221
2022-07-09 18:00	1396802	8.207	-121.603	20.467	348.352	381.370	0.184	21.974	20.467	8.229
2022-07-09 18:15	1397702	8.204	-121.415	20.408	348.485	381.990	0.185	23.437	20.408	8.256
2022-07-09 18:30	1398602	8.205	-121.446	20.376	348.446	382.198	0.185	23.713	20.376	8.255
2022-07-09 18:45	1399502	8.199	-121.117	20.320	347.778	381.916	0.185	24.061	20.320	8.255
2022-07-09 19:00	1400402	8.212	-121.808	20.262	347.806	382.411	0.185	26.221	20.262	8.267
2022-07-09 19:15	1401302	8.212	-121.813	20.242	346.343	380.965	0.184	31.951	20.242	8.243
2022-07-09 19:30	1402202	8.200	-121.114	20.184	345.768	380.799	0.184	30.740	20.184	8.219
2022-07-09 19:45	1403102	8.202	-121.198	20.102	347.212	383.048	0.185	30.276	20.102	8.145
2022-07-09 20:00	1404002	8.202	-121.133	20.032	345.924	382.189	0.185	25.327	20.032	8.110
2022-07-09 20:15	1404902	8.200	-120.993	19.986	346.064	382.717	0.185	21.560	19.986	8.098
2022-07-09 20:30	1405802	8.193	-120.635	19.951	343.929	380.634	0.184	22.234	19.951	8.079
2022-07-09 20:45	1406702	8.197	-120.800	19.891	346.413	383.871	0.186	20.419	19.891	8.052
2022-07-09 21:00	1407602	8.203	-121.121	19.845	343.830	381.384	0.184	19.050	19.845	8.060
2022-07-09 21:15	1408502	8.198	-120.826	19.785	345.405	383.616	0.185	19.168	19.785	8.017
2022-07-09 21:30	1409402	8.195	-120.642	19.758	342.950	381.107	0.184	15.759	19.758	8.001
2022-07-09 21:45	1410302	8.194	-120.590	19.715	345.982	384.826	0.186	16.390	19.715	7.972
2022-07-09 22:00	1411202	8.200	-120.888	19.691	343.708	382.496	0.185	13.012	19.691	7.967
2022-07-09 22:15	1412102	8.197	-120.699	19.659	344.204	383.308	0.185	16.113	19.659	7.955
2022-07-09 22:30	1413002	8.198	-120.754	19.630	345.160	384.605	0.186	23.396	19.630	7.934
2022-07-09 22:45	1413902	8.199	-120.833	19.619	344.647	384.128	0.186	17.052	19.619	7.915
2022-07-09 23:00	1414802	8.200	-120.859	19.613	343.866	383.308	0.185	19.446	19.613	7.903
2022-07-09 23:15	1415702	8.195	-120.587	19.594	344.566	384.238	0.186	13.711	19.594	7.883
2022-07-09 23:30	1416602	8.195	-120.590	19.590	344.406	384.092	0.186	12.669	19.590	7.893
2022-07-09 23:45	1417502	8.197	-120.683	19.572	347.356	387.534	0.187	13.584	19.572	7.868
2022-07-10 0:00	1418402	8.198	-120.735	19.571	346.765	386.881	0.187	18.039	19.571	7.862
2022-07-10 0:15	1419302	8.194	-120.544	19.590	345.021	384.780	0.186	23.933	19.590	7.819
2022-07-10 0:30	1420202	8.194	-120.511	19.590	344.602	384.310	0.186	13.545	19.590	7.847
2022-07-10 0:45	1421102	8.197	-120.673	19.584	347.265	387.336	0.187	18.763	19.584	7.834
2022-07-10 1:00	1422002	8.203	-121.036	19.577	346.392	386.413	0.187	14.087	19.577	7.839
2022-07-10 1:15	1422902	8.193	-120.440	19.578	345.842	385.798	0.187	11.382	19.578	7.816
2022-07-10 1:30	1423802	8.195	-120.585	19.577	347.320	387.449	0.187	13.542	19.577	7.814
2022-07-10 1:45	1424702	8.195	-120.556	19.575	347.100	387.225	0.187	11.391	19.575	7.802

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-10 2:00	1425602	8.200	-120.842	19.571	348.106	388.378	0.188	15.266	19.571	7.805
2022-07-10 2:15	1426502	8.197	-120.685	19.579	346.708	386.751	0.187	9.524	19.579	7.792
2022-07-10 2:30	1427402	8.198	-120.716	19.568	350.179	390.716	0.189	8.687	19.568	7.792
2022-07-10 2:45	1428302	8.197	-120.697	19.576	347.897	388.103	0.188	11.578	19.576	7.786
2022-07-10 3:00	1429202	8.206	-121.164	19.565	347.803	388.089	0.188	11.163	19.565	7.791
2022-07-10 3:15	1430102	8.199	-120.802	19.557	349.237	389.760	0.189	13.578	19.557	7.786
2022-07-10 3:30	1431002	8.200	-120.831	19.566	349.266	389.717	0.188	9.207	19.566	7.770
2022-07-10 3:45	1431902	8.201	-120.902	19.562	351.124	391.823	0.190	9.480	19.562	7.778
2022-07-10 4:00	1432802	8.206	-121.152	19.542	352.895	393.966	0.191	10.957	19.542	7.762
2022-07-10 4:15	1433702	8.203	-121.005	19.545	352.806	393.838	0.191	21.739	19.545	7.749
2022-07-10 4:30	1434602	8.204	-121.069	19.551	352.290	393.214	0.190	18.902	19.551	7.749
2022-07-10 4:45	1435502	8.202	-120.966	19.540	355.052	396.391	0.192	19.935	19.540	7.735
2022-07-10 5:00	1436402	8.207	-121.233	19.531	355.807	397.309	0.192	21.152	19.531	7.745
2022-07-10 5:15	1437302	8.201	-120.907	19.531	355.343	396.793	0.192	25.608	19.531	7.740
2022-07-10 5:30	1438202	8.204	-121.069	19.520	356.381	398.047	0.193	26.789	19.520	7.734
2022-07-10 5:45	1439102	8.204	-121.059	19.501	358.867	400.986	0.194	23.539	19.501	7.727
2022-07-10 6:00	1440002	8.212	-121.498	19.488	359.489	401.788	0.194	25.363	19.488	7.714
2022-07-10 6:15	1440902	8.207	-121.222	19.484	359.511	401.846	0.195	21.104	19.484	7.720
2022-07-10 6:30	1441802	8.207	-121.188	19.472	360.545	403.105	0.195	29.862	19.472	7.720
2022-07-10 6:45	1442702	8.208	-121.231	19.450	361.812	404.715	0.196	21.364	19.450	7.727
2022-07-10 7:00	1443602	8.214	-121.622	19.467	360.653	403.273	0.195	19.312	19.467	7.725
2022-07-10 7:15	1444502	8.209	-121.326	19.475	361.591	404.251	0.196	19.173	19.475	7.715
2022-07-10 7:30	1445402	8.209	-121.288	19.458	364.207	407.326	0.197	38.288	19.458	7.736
2022-07-10 7:45	1446302	8.211	-121.405	19.455	364.297	407.454	0.197	21.065	19.455	7.744
2022-07-10 8:00	1447202	8.224	-122.180	19.453	366.566	410.005	0.199	18.518	19.453	7.764
2022-07-10 8:15	1448102	8.217	-121.768	19.448	367.940	411.582	0.199	18.119	19.448	7.770
2022-07-10 8:30	1449002	8.214	-121.560	19.410	368.112	412.109	0.200	26.018	19.410	7.725
2022-07-10 8:45	1449902	8.214	-121.548	19.391	370.744	415.227	0.201	22.053	19.391	7.707
2022-07-10 9:00	1450802	8.224	-122.137	19.369	371.997	416.824	0.202	25.831	19.369	7.710
2022-07-10 9:15	1451702	8.218	-121.822	19.409	370.124	414.373	0.201	31.634	19.409	7.748
2022-07-10 9:30	1452602	8.220	-121.946	19.462	371.073	414.971	0.201	32.436	19.462	7.744
2022-07-10 9:45	1453502	8.222	-122.054	19.495	373.243	417.099	0.202	24.636	19.495	7.757
2022-07-10 10:00	1454402	8.232	-122.635	19.524	373.007	416.576	0.202	25.665	19.524	7.779
2022-07-10 10:15	1455302	8.231	-122.571	19.558	374.760	418.232	0.203	30.557	19.558	7.818
2022-07-10 10:30	1456202	8.233	-122.716	19.626	376.224	419.262	0.203	30.657	19.626	7.844
2022-07-10 10:45	1457102	8.233	-122.766	19.692	375.736	418.127	0.203	23.549	19.692	7.870
2022-07-10 11:00	1458002	8.240	-123.200	19.751	376.337	418.270	0.203	28.639	19.751	7.885
2022-07-10 11:15	1458902	8.238	-123.062	19.788	378.327	420.153	0.204	32.339	19.788	7.911
2022-07-10 11:30	1459802	8.239	-123.188	19.858	379.215	420.515	0.204	33.882	19.858	7.938
2022-07-10 11:45	1460702	8.241	-123.293	19.940	379.246	419.822	0.203	40.345	19.940	7.960
2022-07-10 12:00	1461602	8.252	-123.944	20.002	380.933	421.135	0.204	34.662	20.002	7.992
2022-07-10 12:15	1462502	8.248	-123.811	20.128	382.133	421.342	0.204	37.269	20.128	8.014
2022-07-10 12:30	1463402	8.248	-123.849	20.254	384.060	422.343	0.205	31.487	20.254	8.028
2022-07-10 12:45	1464302	8.250	-123.944	20.248	384.400	422.769	0.205	31.314	20.248	8.035

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-10 13:00	1465202	8.259	-124.567	20.447	387.618	424.537	0.206	36.667	20.447	8.065
2022-07-10 13:15	1466102	8.257	-124.447	20.416	388.034	425.272	0.206	35.051	20.416	8.101
2022-07-10 13:30	1467002	8.258	-124.569	20.566	391.290	427.495	0.207	35.040	20.566	8.112
2022-07-10 13:45	1467902	8.259	-124.660	20.737	392.508	427.297	0.207	36.268	20.737	8.119
2022-07-10 14:00	1468802	8.264	-124.998	20.839	393.390	427.355	0.207	54.827	20.839	8.142
2022-07-10 14:15	1469702	8.263	-124.979	20.958	395.281	428.353	0.208	49.309	20.958	8.199
2022-07-10 14:30	1470602	8.264	-125.043	20.972	395.791	428.781	0.208	35.338	20.972	8.187
2022-07-10 14:45	1471502	8.267	-125.282	21.094	397.614	429.673	0.208	36.312	21.094	8.214
2022-07-10 15:00	1472402	8.272	-125.515	20.991	400.009	433.183	0.210	37.424	20.991	8.207
2022-07-10 15:15	1473302	8.267	-125.268	21.037	399.668	432.397	0.210	42.061	21.037	8.228
2022-07-10 15:30	1474202	8.269	-125.384	21.045	399.097	431.704	0.209	34.544	21.045	8.254
2022-07-10 15:45	1475102	8.268	-125.332	21.037	398.997	431.671	0.209	37.030	21.037	8.245
2022-07-10 16:00	1476002	8.281	-126.021	21.039	400.645	433.440	0.210	40.163	21.039	8.291
2022-07-10 16:15	1476902	8.276	-125.766	21.005	400.732	433.832	0.211	46.942	21.005	8.300
2022-07-10 16:30	1477802	8.276	-125.754	20.974	399.132	432.383	0.210	42.795	20.974	8.285
2022-07-10 16:45	1478702	8.281	-126.021	20.965	402.578	436.195	0.212	51.391	20.965	8.310
2022-07-10 17:00	1479602	8.284	-126.166	20.885	399.642	433.733	0.210	34.907	20.885	8.287
2022-07-10 17:15	1480502	8.283	-126.066	20.797	398.523	433.307	0.210	31.059	20.797	8.296
2022-07-10 17:30	1481402	8.283	-126.004	20.698	398.330	433.993	0.211	33.112	20.698	8.290
2022-07-10 17:45	1482302	8.285	-126.078	20.603	397.962	434.451	0.211	34.527	20.603	8.294
2022-07-10 18:00	1483202	8.292	-126.429	20.473	396.191	433.691	0.210	31.535	20.473	8.302
2022-07-10 18:15	1484102	8.288	-126.195	20.440	397.099	434.987	0.211	30.632	20.440	8.307
2022-07-10 18:30	1485002	8.290	-126.309	20.412	399.631	438.012	0.213	27.485	20.412	8.313
2022-07-10 18:45	1485902	8.292	-126.419	20.401	396.652	434.847	0.211	37.799	20.401	7.913
2022-07-10 19:00	1486802	8.297	-126.684	20.369	395.868	434.281	0.211	33.878	20.369	8.243
2022-07-10 19:15	1487702	8.290	-126.259	20.320	396.403	435.315	0.211	27.079	20.320	8.240
2022-07-10 19:30	1488602	8.296	-126.612	20.341	394.835	433.402	0.210	33.129	20.341	8.323
2022-07-10 19:45	1489502	8.294	-126.491	20.334	394.928	433.570	0.210	42.643	20.334	8.285
2022-07-10 20:00	1490402	8.294	-126.486	20.297	393.794	432.656	0.210	38.194	20.297	8.248
2022-07-10 20:15	1491302	8.287	-126.061	20.257	393.788	433.015	0.210	34.393	20.257	7.940
2022-07-10 20:30	1492202	8.283	-125.813	20.196	395.806	435.793	0.211	36.581	20.196	8.135
2022-07-10 20:45	1493102	8.286	-125.957	20.189	394.473	434.389	0.211	38.244	20.189	8.138
2022-07-10 21:00	1494002	8.287	-126.009	20.145	394.336	434.638	0.211	41.914	20.145	8.153
2022-07-10 21:15	1494902	8.278	-125.489	20.109	392.602	433.057	0.210	44.111	20.109	8.123
2022-07-10 21:30	1495802	8.278	-125.456	20.069	391.729	432.458	0.210	42.693	20.069	7.888
2022-07-10 21:45	1496702	8.272	-125.113	20.020	391.740	432.915	0.210	41.939	20.020	8.060
2022-07-10 22:00	1497602	8.274	-125.210	19.977	394.535	436.401	0.212	38.701	19.977	8.025
2022-07-10 22:15	1498502	8.267	-124.826	19.986	390.018	431.329	0.209	55.311	19.986	7.997
2022-07-10 22:30	1499402	8.267	-124.800	19.983	389.439	430.714	0.209	48.597	19.983	7.966
2022-07-10 22:45	1500302	8.264	-124.614	19.973	389.982	431.404	0.209	45.539	19.973	7.941
2022-07-10 23:00	1501202	8.265	-124.686	19.960	389.981	431.522	0.209	46.719	19.960	7.924
2022-07-10 23:15	1502102	8.257	-124.209	19.917	390.086	432.034	0.210	54.159	19.917	7.904
2022-07-10 23:30	1503002	8.253	-123.994	19.898	389.486	431.541	0.209	51.653	19.898	7.883
2022-07-10 23:45	1503902	8.253	-123.961	19.880	388.583	430.702	0.209	52.557	19.880	7.870

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-11 0:00	1504802	8.255	-124.085	19.855	389.090	431.493	0.209	70.754	19.855	7.865
2022-07-11 0:15	1505702	8.249	-123.711	19.836	388.416	430.918	0.209	54.164	19.836	7.847
2022-07-11 0:30	1506602	8.247	-123.579	19.810	389.447	432.303	0.210	52.297	19.810	7.832
2022-07-11 0:45	1507502	8.248	-123.637	19.796	387.885	430.691	0.209	43.468	19.796	7.836
2022-07-11 1:00	1508402	8.254	-123.997	19.773	386.645	429.526	0.208	55.571	19.773	7.830
2022-07-11 1:15	1509302	8.246	-123.539	19.756	385.823	428.772	0.208	49.014	19.756	7.802
2022-07-11 1:30	1510202	8.247	-123.553	19.745	385.308	428.293	0.208	38.335	19.745	7.798
2022-07-11 1:45	1511102	8.246	-123.489	19.740	386.096	429.217	0.208	42.648	19.740	7.789
2022-07-11 2:00	1512002	8.251	-123.789	19.727	386.732	430.044	0.209	38.736	19.727	7.791
2022-07-11 2:15	1512902	8.244	-123.410	19.721	383.983	427.045	0.207	55.119	19.721	7.776
2022-07-11 2:30	1513802	8.242	-123.272	19.701	384.013	427.257	0.207	35.434	19.701	7.780
2022-07-11 2:45	1514702	8.241	-123.234	19.690	383.776	427.092	0.207	36.418	19.690	7.774
2022-07-11 3:00	1515602	8.246	-123.494	19.659	383.445	427.008	0.207	41.424	19.659	7.765
2022-07-11 3:15	1516502	8.238	-122.998	19.639	382.230	425.833	0.206	48.280	19.639	7.758
2022-07-11 3:30	1517402	8.234	-122.805	19.631	383.545	427.370	0.207	53.056	19.631	7.742
2022-07-11 3:45	1518302	8.234	-122.812	19.621	380.433	423.990	0.206	49.876	19.621	7.732
2022-07-11 4:00	1519202	8.240	-123.115	19.595	381.324	425.221	0.206	38.758	19.595	7.718
2022-07-11 4:15	1520102	8.232	-122.674	19.563	381.457	425.658	0.206	38.213	19.563	7.720
2022-07-11 4:30	1521002	8.233	-122.697	19.562	378.441	422.301	0.205	37.722	19.562	7.718
2022-07-11 4:45	1521902	8.231	-122.581	19.520	379.902	424.316	0.206	35.868	19.520	7.710
2022-07-11 5:00	1522802	8.238	-122.948	19.502	378.418	422.823	0.205	27.887	19.502	7.693
2022-07-11 5:15	1523702	8.229	-122.416	19.472	378.813	423.527	0.205	24.789	19.472	7.685
2022-07-11 5:30	1524602	8.231	-122.561	19.465	376.455	420.957	0.204	19.275	19.465	7.688
2022-07-11 5:45	1525502	8.229	-122.426	19.445	375.744	420.345	0.204	17.047	19.445	7.700
2022-07-11 6:00	1526402	8.239	-122.964	19.433	374.902	419.504	0.203	33.477	19.433	7.696
2022-07-11 6:15	1527302	8.233	-122.626	19.393	375.327	420.344	0.204	28.161	19.393	7.702
2022-07-11 6:30	1528202	8.233	-122.609	19.388	376.337	421.518	0.204	32.452	19.388	7.700
2022-07-11 6:45	1529102	8.232	-122.597	19.395	373.519	418.304	0.203	33.896	19.395	7.692
2022-07-11 7:00	1530002	8.238	-122.917	19.379	374.201	419.208	0.203	28.650	19.379	7.699
2022-07-11 7:15	1530902	8.232	-122.597	19.376	374.521	419.595	0.203	22.923	19.376	7.697
2022-07-11 7:30	1531802	8.230	-122.483	19.371	371.016	415.710	0.201	24.847	19.371	7.700
2022-07-11 7:45	1532702	8.232	-122.554	19.342	374.114	419.443	0.203	23.007	19.342	7.696
2022-07-11 8:00	1533602	8.240	-123.012	19.351	372.693	417.768	0.202	36.451	19.351	7.699
2022-07-11 8:15	1534502	8.231	-122.526	19.358	371.306	416.154	0.202	30.799	19.358	7.698
2022-07-11 8:30	1535402	8.235	-122.728	19.346	372.455	417.547	0.202	23.791	19.346	7.713
2022-07-11 8:45	1536302	8.235	-122.705	19.345	370.987	415.909	0.201	23.541	19.345	7.715
2022-07-11 9:00	1537202	8.243	-123.155	19.348	372.618	417.707	0.202	33.842	19.348	7.722
2022-07-11 9:15	1538102	8.235	-122.755	19.365	371.121	415.882	0.201	40.028	19.365	7.735
2022-07-11 9:30	1539002	8.237	-122.869	19.409	371.434	415.844	0.201	24.592	19.409	7.748
2022-07-11 9:45	1539902	8.238	-122.941	19.426	372.546	416.934	0.202	31.394	19.426	7.744
2022-07-11 10:00	1540802	8.247	-123.444	19.461	371.482	415.429	0.201	31.058	19.461	7.794
2022-07-11 10:15	1541702	8.246	-123.405	19.540	372.931	416.353	0.202	22.693	19.540	7.821
2022-07-11 10:30	1542602	8.247	-123.484	19.570	373.145	416.324	0.202	20.021	19.570	7.843
2022-07-11 10:45	1543502	8.251	-123.746	19.629	371.561	414.032	0.201	26.959	19.629	7.882

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-11 11:00	1544402	8.260	-124.283	19.707	373.569	415.579	0.201	22.594	19.707	7.919
2022-07-11 11:15	1545302	8.255	-124.021	19.792	374.092	415.413	0.201	18.933	19.792	7.944
2022-07-11 11:30	1546202	8.258	-124.254	19.822	374.027	415.076	0.201	29.139	19.822	7.956
2022-07-11 11:45	1547102	8.258	-124.283	19.908	373.658	413.914	0.201	37.342	19.908	7.990
2022-07-11 12:00	1548002	8.264	-124.655	19.967	375.412	415.337	0.201	31.539	19.967	8.000
2022-07-11 12:15	1548902	8.263	-124.602	20.030	376.698	416.204	0.202	23.639	20.030	8.016
2022-07-11 12:30	1549802	8.265	-124.769	20.147	375.927	414.329	0.201	24.385	20.147	8.051
2022-07-11 12:45	1550702	8.266	-124.884	20.308	377.656	414.834	0.201	21.748	20.308	8.054
2022-07-11 13:00	1551602	8.267	-125.008	20.443	380.288	416.540	0.202	37.051	20.443	8.081
2022-07-11 13:15	1552502	8.269	-125.203	20.649	381.525	416.105	0.202	38.900	20.649	8.101
2022-07-11 13:30	1553402	8.267	-125.165	20.784	382.288	415.770	0.201	50.176	20.784	8.137
2022-07-11 13:45	1554302	8.268	-125.258	20.871	383.743	416.598	0.202	37.246	20.871	8.135
2022-07-11 14:00	1555202	8.265	-125.136	21.045	384.929	416.380	0.202	35.804	21.045	8.150
2022-07-11 14:15	1556102	8.268	-125.349	21.070	388.905	420.469	0.204	29.162	21.070	8.164
2022-07-11 14:30	1557002	8.267	-125.225	21.036	384.721	416.237	0.202	34.098	21.036	8.129
2022-07-11 14:45	1557902	8.262	-124.938	20.985	384.825	416.785	0.202	35.690	20.985	8.110
2022-07-11 15:00	1558802	8.265	-125.110	21.025	385.319	416.976	0.202	31.769	21.025	8.173
2022-07-11 15:15	1559702	8.263	-125.012	20.995	385.641	417.587	0.202	29.371	20.995	8.154
2022-07-11 15:30	1560602	8.269	-125.356	21.051	384.654	416.032	0.202	33.468	21.051	8.221
2022-07-11 15:45	1561502	8.269	-125.432	21.127	386.023	416.858	0.202	28.332	21.127	8.230
2022-07-11 16:00	1562402	8.275	-125.716	21.077	387.104	418.462	0.203	36.880	21.077	8.130
2022-07-11 16:15	1563302	8.268	-125.287	20.927	383.889	416.269	0.202	34.792	20.927	8.154
2022-07-11 16:30	1564202	8.276	-125.732	20.973	384.213	416.225	0.202	26.169	20.973	8.237
2022-07-11 16:45	1565102	8.275	-125.649	20.904	385.450	418.166	0.203	25.257	20.904	8.236
2022-07-11 17:00	1566002	8.282	-125.995	20.747	388.299	422.630	0.205	22.891	20.747	8.273
2022-07-11 17:15	1566902	8.277	-125.690	20.776	383.413	417.059	0.202	28.589	20.776	8.241
2022-07-11 17:30	1567802	8.285	-126.219	20.848	385.704	418.931	0.203	17.922	20.848	8.307
2022-07-11 17:45	1568702	8.284	-126.107	20.746	379.561	413.132	0.200	26.230	20.746	8.226
2022-07-11 18:00	1569602	8.291	-126.426	20.644	380.043	414.529	0.201	30.805	20.644	8.233
2022-07-11 18:15	1570502	8.288	-126.276	20.608	378.374	413.022	0.200	25.723	20.608	8.259
2022-07-11 18:30	1571402	8.290	-126.357	20.580	374.345	408.860	0.198	23.198	20.580	8.261
2022-07-11 18:45	1572302	8.287	-126.190	20.554	372.498	407.067	0.197	34.276	20.554	8.261
2022-07-11 19:00	1573202	8.295	-126.610	20.519	372.529	407.400	0.197	24.980	20.519	8.257
2022-07-11 19:15	1574102	8.290	-126.340	20.495	374.795	410.079	0.199	55.242	20.495	8.246
2022-07-11 19:30	1575002	8.292	-126.467	20.503	373.364	408.447	0.198	17.975	20.503	8.231
2022-07-11 19:45	1575902	8.293	-126.529	20.516	374.210	409.258	0.198	14.232	20.516	8.238
2022-07-11 20:00	1576802	8.302	-127.044	20.527	375.745	410.845	0.199	11.880	20.527	8.233
2022-07-11 20:15	1577702	8.302	-127.025	20.561	373.089	407.650	0.197	9.288	20.561	8.192
2022-07-11 20:30	1578602	8.292	-126.481	20.564	370.096	404.359	0.196	12.008	20.564	8.191
2022-07-11 20:45	1579502	8.298	-126.843	20.597	367.765	401.536	0.194	11.539	20.597	8.170
2022-07-11 21:00	1580402	8.309	-127.449	20.663	364.907	397.862	0.193	10.813	20.663	8.170
2022-07-11 21:15	1581302	8.291	-126.452	20.709	365.644	398.288	0.193	8.868	20.709	8.139
2022-07-11 21:30	1582202	8.291	-126.491	20.704	366.061	398.781	0.193	8.022	20.704	8.120
2022-07-11 21:45	1583102	8.286	-126.212	20.717	365.288	397.831	0.193	7.915	20.717	8.101

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-11 22:00	1584002	8.297	-126.827	20.752	365.831	398.138	0.193	7.654	20.752	8.096
2022-07-11 22:15	1584902	8.290	-126.438	20.779	365.879	397.967	0.193	7.329	20.779	8.089
2022-07-11 22:30	1585802	8.284	-126.140	20.808	365.484	397.292	0.192	7.579	20.808	8.071
2022-07-11 22:45	1586702	8.285	-126.181	20.816	364.778	396.459	0.192	9.628	20.816	8.055
2022-07-11 23:00	1587602	8.288	-126.352	20.828	364.518	396.084	0.192	7.406	20.828	8.048
2022-07-11 23:15	1588502	8.282	-126.007	20.831	365.318	396.928	0.192	8.212	20.831	8.026
2022-07-11 23:30	1589402	8.280	-125.897	20.835	364.334	395.822	0.192	7.814	20.835	8.025
2022-07-11 23:45	1590302	8.279	-125.833	20.840	364.288	395.729	0.192	7.258	20.840	8.013
2022-07-12 0:00	1591202	8.283	-126.059	20.841	364.299	395.736	0.192	7.641	20.841	8.016
2022-07-12 0:15	1592102	8.279	-125.840	20.837	364.244	395.711	0.192	6.986	20.837	8.012
2022-07-12 0:30	1593002	8.279	-125.866	20.836	364.409	395.893	0.192	7.952	20.836	8.000
2022-07-12 0:45	1593902	8.279	-125.833	20.831	363.796	395.273	0.191	8.325	20.831	8.001
2022-07-12 1:00	1594802	8.284	-126.100	20.818	363.850	395.437	0.191	7.192	20.818	7.999
2022-07-12 1:15	1595702	8.282	-126.028	20.798	363.529	395.249	0.191	6.727	20.798	7.987
2022-07-12 1:30	1596602	8.282	-125.997	20.783	362.918	394.707	0.191	7.007	20.783	7.979
2022-07-12 1:45	1597502	8.282	-125.999	20.761	362.683	394.636	0.191	6.794	20.761	7.981
2022-07-12 2:00	1598402	8.287	-126.247	20.729	362.765	394.989	0.191	7.796	20.729	7.979
2022-07-12 2:15	1599302	8.276	-125.613	20.695	362.106	394.545	0.191	7.342	20.695	7.972
2022-07-12 2:30	1600202	8.276	-125.592	20.662	361.516	394.179	0.191	6.912	20.662	7.967
2022-07-12 2:45	1601102	8.279	-125.775	20.630	361.273	394.177	0.191	7.173	20.630	7.966
2022-07-12 3:00	1602002	8.288	-126.257	20.591	360.748	393.925	0.191	8.226	20.591	7.967
2022-07-12 3:15	1602902	8.281	-125.844	20.557	360.368	393.782	0.191	6.259	20.557	7.967
2022-07-12 3:30	1603802	8.287	-126.143	20.518	360.445	394.187	0.191	6.364	20.518	7.955
2022-07-12 3:45	1604702	8.285	-126.052	20.481	359.550	393.519	0.190	6.158	20.481	7.976
2022-07-12 4:00	1605602	8.295	-126.593	20.441	359.419	393.701	0.191	6.931	20.441	7.964
2022-07-12 4:15	1606502	8.288	-126.159	20.404	359.152	393.715	0.191	6.332	20.404	7.959
2022-07-12 4:30	1607402	8.287	-126.071	20.366	359.136	394.012	0.191	5.822	20.366	7.948
2022-07-12 4:45	1608302	8.287	-126.104	20.331	358.576	393.687	0.190	7.319	20.331	7.961
2022-07-12 5:00	1609202	8.297	-126.612	20.281	358.264	393.751	0.191	5.988	20.281	7.961
2022-07-12 5:15	1610102	8.296	-126.574	20.248	357.785	393.497	0.190	6.253	20.248	7.960
2022-07-12 5:30	1611002	8.292	-126.321	20.208	355.822	391.673	0.189	6.391	20.208	7.963
2022-07-12 5:45	1611902	8.295	-126.438	20.168	357.143	393.456	0.190	6.030	20.168	7.952
2022-07-12 6:00	1612802	8.297	-126.588	20.127	357.236	393.895	0.191	6.842	20.127	7.946
2022-07-12 6:15	1613702	8.289	-126.102	20.089	356.698	393.619	0.190	6.622	20.089	7.946
2022-07-12 6:30	1614602	8.289	-126.095	20.053	356.483	393.684	0.190	6.409	20.053	7.946
2022-07-12 6:45	1615502	8.285	-125.806	20.016	356.506	394.016	0.191	6.182	20.016	7.936
2022-07-12 7:00	1616402	8.295	-126.359	19.987	356.205	393.920	0.191	7.543	19.987	7.944
2022-07-12 7:15	1617302	8.285	-125.825	19.952	356.201	394.209	0.191	7.828	19.952	7.905
2022-07-12 7:30	1618202	8.283	-125.675	19.927	356.032	394.229	0.191	6.341	19.927	7.905
2022-07-12 7:45	1619102	8.279	-125.427	19.897	355.905	394.343	0.191	6.870	19.897	7.891
2022-07-12 8:00	1620002	8.290	-126.052	19.862	355.943	394.673	0.191	7.052	19.862	7.883
2022-07-12 8:15	1620902	8.275	-125.213	19.842	355.700	394.569	0.191	8.258	19.842	7.886
2022-07-12 8:30	1621802	8.276	-125.232	19.823	355.671	394.699	0.191	6.610	19.823	7.875
2022-07-12 8:45	1622702	8.271	-124.950	19.795	355.894	395.182	0.191	6.600	19.795	7.858

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-12 9:00	1623602	8.281	-125.523	19.788	355.775	395.107	0.191	7.621	19.788	7.859
2022-07-12 9:15	1624502	8.273	-125.046	19.810	355.341	394.442	0.191	6.416	19.810	7.881
2022-07-12 9:30	1625402	8.269	-124.869	19.811	356.282	395.476	0.191	6.191	19.811	7.854
2022-07-12 9:45	1626302	8.264	-124.524	19.783	356.019	395.420	0.191	8.288	19.783	7.821
2022-07-12 10:00	1627202	8.276	-125.234	19.769	356.478	396.051	0.192	7.894	19.769	7.834
2022-07-12 10:15	1628102	8.265	-124.576	19.769	356.527	396.106	0.192	6.476	19.769	7.847
2022-07-12 10:30	1629002	8.262	-124.407	19.776	356.796	396.340	0.192	7.414	19.776	7.853
2022-07-12 10:45	1629902	8.257	-124.145	19.767	357.079	396.735	0.192	16.923	19.767	7.828
2022-07-12 11:00	1630802	8.263	-124.481	19.756	357.060	396.806	0.192	11.308	19.756	7.806
2022-07-12 11:15	1631702	8.259	-124.249	19.734	356.633	396.511	0.192	7.715	19.734	7.787
2022-07-12 11:30	1632602	8.259	-124.221	19.737	356.944	396.839	0.192	7.594	19.737	7.813
2022-07-12 11:45	1633502	8.256	-124.063	19.735	357.232	397.173	0.192	6.848	19.735	7.800
2022-07-12 12:00	1634402	8.265	-124.590	19.741	357.874	397.838	0.193	8.749	19.741	7.822
2022-07-12 12:15	1635302	8.251	-123.827	19.774	358.818	398.609	0.193	8.269	19.774	7.848
2022-07-12 12:30	1636202	8.255	-124.037	19.788	359.734	399.508	0.193	7.356	19.788	7.860
2022-07-12 12:45	1637102	8.259	-124.297	19.815	360.875	400.542	0.194	7.268	19.815	7.902
2022-07-12 13:00	1638002	8.269	-124.886	19.874	362.521	401.864	0.195	6.642	19.874	7.944
2022-07-12 13:15	1638902	8.263	-124.528	19.917	363.924	403.051	0.195	6.397	19.917	7.944
2022-07-12 13:30	1639802	8.267	-124.776	19.962	365.426	404.331	0.196	6.630	19.962	7.958
2022-07-12 13:45	1640702	8.263	-124.595	19.984	367.096	405.993	0.197	6.723	19.984	7.962
2022-07-12 14:00	1641602	8.276	-125.344	20.002	368.369	407.248	0.197	7.122	20.002	7.963
2022-07-12 14:15	1642502	8.272	-125.091	20.014	370.047	408.993	0.198	6.573	20.014	7.954
2022-07-12 14:30	1643402	8.270	-124.986	20.039	371.593	410.488	0.199	6.929	20.039	7.981
2022-07-12 14:45	1644302	8.273	-125.151	20.050	372.946	411.888	0.200	7.139	20.050	7.962
2022-07-12 15:00	1645202	8.285	-125.885	20.076	374.924	413.849	0.201	9.634	20.076	7.995
2022-07-12 15:15	1646102	8.284	-125.842	20.116	376.428	415.156	0.201	6.655	20.116	8.004
2022-07-12 15:30	1647002	8.284	-125.864	20.156	378.048	416.593	0.202	6.791	20.156	8.012
2022-07-12 15:45	1647902	8.279	-125.556	20.188	379.343	417.736	0.202	7.199	20.188	8.006
2022-07-12 16:00	1648802	8.296	-126.514	20.204	380.733	419.128	0.203	7.873	20.204	7.991
2022-07-12 16:15	1649702	8.295	-126.505	20.222	381.623	419.947	0.204	6.666	20.222	7.989
2022-07-12 16:30	1650602	8.289	-126.145	20.229	382.282	420.609	0.204	7.369	20.229	7.964
2022-07-12 16:45	1651502	8.290	-126.185	20.230	382.839	421.217	0.204	7.100	20.230	7.944
2022-07-12 17:00	1652402	8.297	-126.615	20.229	383.489	421.936	0.205	7.337	20.229	7.902
2022-07-12 17:15	1653302	8.285	-125.918	20.230	383.277	421.700	0.204	8.049	20.230	7.881
2022-07-12 17:30	1654202	8.290	-126.238	20.233	383.271	421.659	0.204	6.831	20.233	7.843
2022-07-12 17:45	1655102	8.283	-125.811	20.222	383.132	421.611	0.204	8.466	20.222	7.824
2022-07-12 18:00	1656002	8.299	-126.691	20.209	383.272	421.874	0.205	7.713	20.209	7.787
2022-07-12 18:15	1656902	8.282	-125.751	20.196	382.873	421.552	0.204	7.350	20.196	7.724
2022-07-12 18:30	1657802	8.280	-125.599	20.181	382.065	420.799	0.204	8.519	20.181	7.689
2022-07-12 18:45	1658702	8.280	-125.620	20.160	381.484	420.346	0.204	7.327	20.160	7.641
2022-07-12 19:00	1659602	8.289	-126.119	20.132	380.908	419.951	0.204	7.858	20.132	7.622
2022-07-12 19:15	1660502	8.287	-125.980	20.106	380.103	419.300	0.203	6.913	20.106	7.590
2022-07-12 19:30	1661402	8.282	-125.670	20.079	379.273	418.623	0.203	7.624	20.079	7.553
2022-07-12 19:45	1662302	8.283	-125.730	20.052	378.513	418.017	0.203	7.339	20.052	7.536

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-12 20:00	1663202	8.281	-125.618	20.025	378.143	417.844	0.202	7.368	20.025	7.511
2022-07-12 20:15	1664102	8.265	-124.676	19.996	377.161	417.018	0.202	7.205	19.996	7.479
2022-07-12 20:30	1665002	8.271	-125.022	19.970	376.204	416.192	0.202	7.727	19.970	7.443
2022-07-12 20:45	1665902	8.263	-124.547	19.942	375.420	415.571	0.201	6.571	19.942	7.398
2022-07-12 21:00	1666802	8.270	-124.946	19.917	374.556	414.831	0.201	7.475	19.917	7.369
2022-07-12 21:15	1667702	8.256	-124.156	19.891	373.598	413.998	0.201	6.983	19.891	7.334
2022-07-12 21:30	1668602	8.253	-123.980	19.862	372.919	413.501	0.200	6.938	19.862	7.297
2022-07-12 21:45	1669502	8.252	-123.882	19.839	372.054	412.741	0.200	7.299	19.839	7.272
2022-07-12 22:00	1670402	8.259	-124.261	19.811	371.547	412.420	0.200	8.307	19.811	7.243
2022-07-12 22:15	1671302	8.244	-123.446	19.783	370.685	411.708	0.199	6.448	19.783	7.214
2022-07-12 22:30	1672202	8.239	-123.146	19.749	369.765	410.984	0.199	6.609	19.749	7.187
2022-07-12 22:45	1673102	8.237	-123.014	19.717	369.030	410.448	0.199	7.021	19.717	7.160
2022-07-12 23:00	1674002	8.242	-123.246	19.677	368.103	409.762	0.198	7.220	19.677	7.131
2022-07-12 23:15	1674902	8.230	-122.554	19.640	366.600	408.412	0.198	6.110	19.640	7.093
2022-07-12 23:30	1675802	8.225	-122.259	19.608	365.963	407.982	0.198	8.058	19.608	7.062
2022-07-12 23:45	1676702	8.222	-122.097	19.568	364.758	406.986	0.197	8.118	19.568	7.038
2022-07-13 0:00	1677602	8.219	-121.908	19.529	363.832	406.286	0.197	6.442	19.529	7.009
2022-07-13 0:15	1678502	8.204	-121.017	19.488	362.783	405.473	0.196	6.304	19.488	6.980
2022-07-13 0:30	1679402	8.205	-121.100	19.448	361.755	404.664	0.196	9.475	19.448	6.958
2022-07-13 0:45	1680302	8.193	-120.382	19.411	360.812	403.934	0.196	5.971	19.411	6.940
2022-07-13 1:00	1681202	8.202	-120.857	19.370	359.434	402.744	0.195	7.095	19.370	6.924
2022-07-13 1:15	1682102	8.185	-119.927	19.325	358.410	401.981	0.195	6.088	19.325	6.901
2022-07-13 1:30	1683002	8.185	-119.882	19.291	357.392	401.135	0.194	5.858	19.291	6.891
2022-07-13 1:45	1683902	8.179	-119.538	19.249	356.423	400.405	0.194	6.140	19.249	6.871
2022-07-13 2:00	1684802	8.185	-119.839	19.210	355.783	400.024	0.194	7.504	19.210	6.863
2022-07-13 2:15	1685702	8.171	-119.071	19.170	354.642	399.078	0.193	5.980	19.170	6.852
2022-07-13 2:30	1686602	8.163	-118.582	19.127	353.608	398.286	0.193	6.111	19.127	6.844
2022-07-13 2:45	1687502	8.162	-118.523	19.091	352.782	397.663	0.192	5.984	19.091	6.843
2022-07-13 3:00	1688402	8.174	-119.185	19.058	351.568	396.580	0.192	5.913	19.058	6.842
2022-07-13 3:15	1689302	8.156	-118.139	19.018	350.892	396.159	0.192	6.584	19.018	6.838
2022-07-13 3:30	1690202	8.156	-118.122	18.983	350.210	395.682	0.191	6.571	18.983	6.831
2022-07-13 3:45	1691102	8.154	-118.008	18.944	349.593	395.319	0.191	17.713	18.944	6.830
2022-07-13 4:00	1692002	8.168	-118.768	18.883	348.309	394.384	0.191	6.594	18.883	6.839
2022-07-13 4:15	1692902	8.151	-117.781	18.837	347.593	393.966	0.191	8.688	18.837	6.853
2022-07-13 4:30	1693802	8.149	-117.676	18.804	346.751	393.297	0.190	19.109	18.804	6.855
2022-07-13 4:45	1694702	8.149	-117.643	18.782	346.200	392.861	0.190	6.010	18.782	6.855
2022-07-13 5:00	1695602	8.161	-118.294	18.749	345.560	392.411	0.190	7.103	18.749	6.869
2022-07-13 5:15	1696502	8.147	-117.507	18.703	344.669	391.794	0.189	7.600	18.703	6.868
2022-07-13 5:30	1697402	8.149	-117.607	18.648	343.854	391.329	0.189	5.986	18.648	6.887
2022-07-13 5:45	1698302	8.149	-117.590	18.601	343.009	390.766	0.189	5.637	18.601	6.903
2022-07-13 6:00	1699202	8.159	-118.124	18.562	342.546	390.574	0.189	6.363	18.562	6.912
2022-07-13 6:15	1700102	8.143	-117.230	18.531	341.980	390.196	0.189	6.215	18.531	6.926
2022-07-13 6:30	1701002	8.144	-117.249	18.504	341.429	389.791	0.188	6.919	18.504	6.937
2022-07-13 6:45	1701902	8.144	-117.221	18.468	340.790	389.369	0.188	6.665	18.468	6.955

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-13 7:00	1702802	8.156	-117.893	18.426	340.397	389.276	0.188	19.883	18.426	6.964
2022-07-13 7:15	1703702	8.150	-117.528	18.394	339.636	388.677	0.188	6.842	18.394	6.968
2022-07-13 7:30	1704602	8.147	-117.393	18.362	339.132	388.376	0.188	8.713	18.362	6.979
2022-07-13 7:45	1705502	8.151	-117.593	18.340	338.741	388.110	0.188	7.008	18.340	6.999
2022-07-13 8:00	1706402	8.162	-118.191	18.308	338.414	388.006	0.188	7.455	18.308	7.040
2022-07-13 8:15	1707302	8.148	-117.412	18.301	338.059	387.662	0.187	6.563	18.301	7.070
2022-07-13 8:30	1708202	8.154	-117.741	18.275	337.512	387.255	0.187	7.459	18.275	7.095
2022-07-13 8:45	1709102	8.159	-117.977	18.256	337.135	386.985	0.187	6.588	18.256	7.116
2022-07-13 9:00	1710002	8.173	-118.761	18.240	336.840	386.777	0.187	7.167	18.240	7.149
2022-07-13 9:15	1710902	8.162	-118.148	18.265	336.731	386.441	0.187	6.881	18.265	7.190
2022-07-13 9:30	1711802	8.168	-118.525	18.288	336.699	386.210	0.187	6.987	18.288	7.233
2022-07-13 9:45	1712702	8.170	-118.637	18.301	336.499	385.871	0.186	7.684	18.301	7.267
2022-07-13 10:00	1713602	8.189	-119.734	18.329	336.689	385.850	0.186	9.590	18.329	7.306
2022-07-13 10:15	1714502	8.174	-118.861	18.349	336.603	385.584	0.186	7.016	18.349	7.357
2022-07-13 10:30	1715402	8.184	-119.483	18.376	336.577	385.329	0.186	8.196	18.376	7.392
2022-07-13 10:45	1716302	8.191	-119.879	18.421	336.798	385.204	0.186	7.223	18.421	7.451
2022-07-13 11:00	1717202	8.207	-120.816	18.472	337.027	385.032	0.186	7.866	18.472	7.495
2022-07-13 11:15	1718102	8.198	-120.289	18.477	336.867	384.810	0.186	7.462	18.477	7.503
2022-07-13 11:30	1719002	8.204	-120.645	18.505	336.883	384.590	0.186	7.845	18.505	7.543
2022-07-13 11:45	1719902	8.207	-120.833	18.540	337.048	384.487	0.186	8.224	18.540	7.580
2022-07-13 12:00	1720802	8.222	-121.660	18.584	337.450	384.581	0.186	10.150	18.584	7.615
2022-07-13 12:15	1721702	8.215	-121.300	18.647	337.848	384.502	0.186	7.607	18.647	7.649
2022-07-13 12:30	1722602	8.220	-121.617	18.675	337.855	384.282	0.186	8.377	18.675	7.682
2022-07-13 12:45	1723502	8.226	-121.980	18.708	337.975	384.139	0.186	7.531	18.708	7.734
2022-07-13 13:00	1724402	8.240	-122.762	18.760	338.279	384.051	0.186	29.523	18.760	7.783
2022-07-13 13:15	1725302	8.241	-122.824	18.806	338.416	383.824	0.186	6.886	18.806	7.816
2022-07-13 13:30	1726202	8.250	-123.386	18.862	338.877	383.882	0.186	7.933	18.862	7.861
2022-07-13 13:45	1727102	8.252	-123.487	18.878	338.874	383.746	0.185	7.077	18.878	7.888
2022-07-13 14:00	1728002	8.265	-124.240	18.903	339.247	383.959	0.186	8.594	18.903	7.938
2022-07-13 14:15	1728902	8.254	-123.596	18.928	339.375	383.896	0.186	7.743	18.928	7.954
2022-07-13 14:30	1729802	8.262	-124.061	18.896	339.233	384.006	0.186	7.453	18.896	7.989
2022-07-13 14:45	1730702	8.266	-124.333	18.951	339.492	383.841	0.186	7.528	18.951	8.023
2022-07-13 15:00	1731602	8.283	-125.294	18.953	339.543	383.878	0.186	7.974	18.953	8.065
2022-07-13 15:15	1732502	8.276	-124.896	18.960	339.481	383.752	0.185	9.301	18.960	8.039
2022-07-13 15:30	1733402	8.277	-124.979	19.040	340.062	383.749	0.185	7.407	19.040	8.096
2022-07-13 15:45	1734302	8.282	-125.222	19.040	340.104	383.792	0.186	7.468	19.040	8.115
2022-07-13 16:00	1735202	8.297	-126.104	19.082	340.593	383.998	0.186	9.303	19.082	8.146
2022-07-13 16:15	1736102	8.298	-126.200	19.100	340.516	383.759	0.186	7.682	19.100	8.143
2022-07-13 16:30	1737002	8.294	-125.985	19.121	340.679	383.770	0.186	7.630	19.121	8.179
2022-07-13 16:45	1737902	8.299	-126.262	19.146	340.791	383.690	0.185	7.662	19.146	8.179
2022-07-13 17:00	1738802	8.309	-126.839	19.189	341.220	383.819	0.186	7.954	19.189	8.204
2022-07-13 17:15	1739702	8.302	-126.452	19.183	341.057	383.683	0.185	7.605	19.183	8.213
2022-07-13 17:30	1740602	8.300	-126.338	19.208	341.241	383.688	0.185	7.174	19.208	8.220
2022-07-13 17:45	1741502	8.302	-126.443	19.243	341.460	383.647	0.185	30.409	19.243	8.230

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-13 18:00	1742402	8.314	-127.153	19.228	341.554	383.876	0.186	8.286	19.228	8.236
2022-07-13 18:15	1743302	8.298	-126.200	19.208	341.292	383.742	0.186	7.411	19.208	8.234
2022-07-13 18:30	1744202	8.308	-126.781	19.190	341.100	383.679	0.185	8.283	19.190	8.236
2022-07-13 18:45	1745102	8.305	-126.605	19.178	341.156	383.835	0.186	19.587	19.178	8.236
2022-07-13 19:00	1746002	8.316	-127.230	19.177	341.053	383.733	0.185	16.497	19.177	8.230
2022-07-13 19:15	1746902	8.308	-126.786	19.157	340.822	383.639	0.185	8.836	19.157	8.226
2022-07-13 19:30	1747802	8.305	-126.579	19.132	340.727	383.732	0.185	8.358	19.132	8.200
2022-07-13 19:45	1748702	8.301	-126.338	19.077	340.328	383.743	0.185	7.624	19.077	8.164
2022-07-13 20:00	1749602	8.312	-126.932	19.045	340.193	383.856	0.186	10.098	19.045	8.160
2022-07-13 20:15	1750502	8.298	-126.138	18.999	339.896	383.895	0.186	19.003	18.999	8.126
2022-07-13 20:30	1751402	8.288	-125.556	18.948	339.468	383.834	0.186	111.278	18.948	8.101
2022-07-13 20:45	1752302	8.294	-125.847	18.928	339.411	383.940	0.186	9.290	18.928	8.087
2022-07-13 21:00	1753202	8.301	-126.235	18.908	339.305	383.983	0.186	9.681	18.908	8.067
2022-07-13 21:15	1754102	8.288	-125.525	18.893	339.220	384.017	0.186	7.998	18.893	8.045
2022-07-13 21:30	1755002	8.281	-125.113	18.870	338.937	383.884	0.186	8.129	18.870	8.023
2022-07-13 21:45	1755902	8.284	-125.248	18.847	338.815	383.934	0.186	8.513	18.847	8.005
2022-07-13 22:00	1756802	8.295	-125.885	18.830	338.820	384.084	0.186	11.233	18.830	7.994
2022-07-13 22:15	1757702	8.278	-124.907	18.822	338.779	384.106	0.186	7.022	18.822	7.970
2022-07-13 22:30	1758602	8.276	-124.800	18.819	338.728	384.072	0.186	7.502	18.819	7.960
2022-07-13 22:45	1759502	8.280	-125.036	18.819	338.696	384.035	0.186	7.545	18.819	7.940
2022-07-13 23:00	1760402	8.289	-125.515	18.802	338.612	384.078	0.186	7.971	18.802	7.946
2022-07-13 23:15	1761302	8.272	-124.588	18.795	338.735	384.276	0.186	7.125	18.795	7.927
2022-07-13 23:30	1762202	8.271	-124.526	18.796	338.730	384.261	0.186	7.266	18.796	7.924
2022-07-13 23:45	1763102	8.269	-124.404	18.780	338.493	384.126	0.186	9.541	18.780	7.910
2022-07-14 0:00	1764002	8.280	-125.031	18.772	338.526	384.232	0.186	9.021	18.772	7.905
2022-07-14 0:15	1764902	8.260	-123.901	18.750	337.983	383.799	0.186	7.659	18.750	7.890
2022-07-14 0:30	1765802	8.264	-124.123	18.729	338.069	384.073	0.186	7.618	18.729	7.882
2022-07-14 0:45	1766702	8.265	-124.159	18.706	337.857	384.024	0.186	9.046	18.706	7.874
2022-07-14 1:00	1767602	8.275	-124.710	18.687	337.839	384.164	0.186	8.216	18.687	7.875
2022-07-14 1:15	1768502	8.256	-123.620	18.668	337.709	384.172	0.186	8.225	18.668	7.871
2022-07-14 1:30	1769402	8.255	-123.541	18.661	337.402	383.878	0.186	7.910	18.661	7.857
2022-07-14 1:45	1770302	8.254	-123.520	18.632	337.269	383.973	0.186	6.785	18.632	7.843
2022-07-14 2:00	1771202	8.269	-124.323	18.615	337.324	384.177	0.186	8.010	18.615	7.842
2022-07-14 2:15	1772102	8.252	-123.348	18.596	337.099	384.077	0.186	7.655	18.596	7.831
2022-07-14 2:30	1773002	8.249	-123.188	18.578	336.900	384.005	0.186	7.675	18.578	7.826
2022-07-14 2:45	1773902	8.248	-123.115	18.551	336.746	384.049	0.186	7.282	18.551	7.816
2022-07-14 3:00	1774802	8.259	-123.723	18.520	336.540	384.076	0.186	9.107	18.520	7.818
2022-07-14 3:15	1775702	8.244	-122.869	18.491	336.180	383.907	0.186	6.915	18.491	7.799
2022-07-14 3:30	1776602	8.244	-122.881	18.470	336.080	383.974	0.186	7.944	18.470	7.789
2022-07-14 3:45	1777502	8.239	-122.545	18.439	335.827	383.942	0.186	7.442	18.439	7.781
2022-07-14 4:00	1778402	8.252	-123.270	18.411	335.614	383.933	0.186	7.839	18.411	7.785
2022-07-14 4:15	1779302	8.238	-122.502	18.381	335.314	383.836	0.185	7.772	18.381	7.769
2022-07-14 4:30	1780202	8.237	-122.433	18.347	335.097	383.878	0.186	8.341	18.347	7.773
2022-07-14 4:45	1781102	8.235	-122.278	18.313	334.836	383.865	0.186	7.488	18.313	7.762

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-14 5:00	1782002	8.248	-123.010	18.278	334.544	383.820	0.185	8.731	18.278	7.759
2022-07-14 5:15	1782902	8.231	-122.058	18.243	334.222	383.746	0.185	7.055	18.243	7.747
2022-07-14 5:30	1783802	8.232	-122.066	18.216	333.960	383.671	0.185	7.945	18.216	7.747
2022-07-14 5:45	1784702	8.230	-121.980	18.193	333.676	383.542	0.185	7.573	18.193	7.751
2022-07-14 6:00	1785602	8.248	-122.936	18.147	333.423	383.642	0.185	7.695	18.147	7.749
2022-07-14 6:15	1786502	8.230	-121.951	18.114	333.174	383.630	0.185	6.925	18.114	7.762
2022-07-14 6:30	1787402	8.228	-121.813	18.083	332.876	383.552	0.185	15.526	18.083	7.770
2022-07-14 6:45	1788302	8.228	-121.794	18.067	332.662	383.436	0.185	8.398	18.067	7.775
2022-07-14 7:00	1789202	8.244	-122.695	18.044	332.305	383.222	0.185	8.324	18.044	7.802
2022-07-14 7:15	1790102	8.230	-121.911	18.031	332.207	383.216	0.185	7.635	18.031	7.806
2022-07-14 7:30	1791002	8.232	-122.018	18.000	331.871	383.087	0.185	7.332	18.000	7.817
2022-07-14 7:45	1791902	8.234	-122.111	17.990	331.713	382.996	0.185	7.519	17.990	7.840
2022-07-14 8:00	1792802	8.246	-122.795	17.976	331.627	383.014	0.185	8.494	17.976	7.847
2022-07-14 8:15	1793702	8.237	-122.242	17.964	331.447	382.908	0.185	7.159	17.964	7.866
2022-07-14 8:30	1794602	8.235	-122.159	17.953	331.244	382.761	0.185	7.938	17.953	7.887
2022-07-14 8:45	1795502	8.236	-122.192	17.952	331.132	382.646	0.185	7.628	17.952	7.907
2022-07-14 9:00	1796402	8.253	-123.146	17.948	331.092	382.631	0.185	8.412	17.948	7.932
2022-07-14 9:15	1797302	8.242	-122.545	17.962	330.986	382.392	0.185	10.573	17.962	7.963
2022-07-14 9:30	1798202	8.242	-122.516	17.968	331.049	382.409	0.185	8.168	17.968	7.960
2022-07-14 9:45	1799102	8.244	-122.678	17.968	330.928	382.271	0.185	7.396	17.968	7.973
2022-07-14 10:00	1800002	8.258	-123.422	17.989	331.167	382.370	0.185	8.642	17.989	8.006
2022-07-14 10:15	1800902	8.249	-122.960	18.023	331.250	382.183	0.185	7.020	18.023	8.039
2022-07-14 10:30	1801802	8.252	-123.160	18.059	331.484	382.143	0.185	13.530	18.059	8.060
2022-07-14 10:45	1802702	8.252	-123.169	18.091	331.722	382.148	0.185	7.801	18.091	8.086
2022-07-14 11:00	1803602	8.271	-124.271	18.157	332.112	382.049	0.185	10.370	18.157	8.127
2022-07-14 11:15	1804502	8.261	-123.727	18.206	332.329	381.888	0.185	7.385	18.206	8.153
2022-07-14 11:30	1805402	8.260	-123.694	18.245	332.334	381.564	0.184	7.387	18.245	8.188
2022-07-14 11:45	1806302	8.264	-123.947	18.329	333.162	381.812	0.184	7.782	18.329	8.198
2022-07-14 12:00	1807202	8.281	-124.907	18.363	333.485	381.896	0.185	8.560	18.363	8.240
2022-07-14 12:15	1808102	8.273	-124.476	18.386	333.356	381.554	0.184	9.609	18.386	8.257
2022-07-14 12:30	1809002	8.269	-124.214	18.347	332.882	381.342	0.184	8.109	18.347	8.282
2022-07-14 12:45	1809902	8.273	-124.426	18.296	332.333	381.137	0.184	7.708	18.296	8.288
2022-07-14 13:00	1810802	8.286	-125.153	18.261	331.881	380.911	0.184	9.004	18.261	8.308
2022-07-14 13:15	1811702	8.275	-124.540	18.261	331.950	380.992	0.184	7.857	18.261	8.333
2022-07-14 13:30	1812602	8.280	-124.784	18.265	331.751	380.730	0.184	8.483	18.265	8.367
2022-07-14 13:45	1813502	8.281	-124.874	18.285	331.843	380.666	0.184	8.309	18.285	8.382
2022-07-14 14:00	1814402	8.300	-125.964	18.305	331.917	380.587	0.184	9.402	18.305	8.392
2022-07-14 14:15	1815302	8.288	-125.291	18.316	331.700	380.246	0.184	13.716	18.316	8.395
2022-07-14 14:30	1816202	8.285	-125.082	18.321	331.737	380.246	0.184	7.860	18.321	8.413
2022-07-14 14:45	1817102	8.288	-125.277	18.342	331.830	380.172	0.184	7.617	18.342	8.433
2022-07-14 15:00	1818002	8.309	-126.469	18.365	331.827	379.985	0.184	8.745	18.365	8.451
2022-07-14 15:15	1818902	8.300	-126.002	18.404	331.714	379.530	0.183	11.030	18.404	8.486
2022-07-14 15:30	1819802	8.307	-126.412	18.525	332.632	379.579	0.183	7.715	18.525	8.528
2022-07-14 15:45	1820702	8.307	-126.474	18.593	333.041	379.481	0.183	7.665	18.593	8.524

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-14 16:00	1821602	8.327	-127.621	18.722	334.066	379.586	0.183	7.787	18.722	8.553
2022-07-14 16:15	1822502	8.314	-126.941	18.747	334.057	379.364	0.183	6.822	18.747	8.560
2022-07-14 16:30	1823402	8.319	-127.196	18.739	333.633	378.949	0.183	6.819	18.739	8.554
2022-07-14 16:45	1824302	8.321	-127.339	18.816	334.003	378.734	0.183	6.940	18.816	8.625
2022-07-14 17:00	1825202	8.341	-128.484	18.906	334.554	378.628	0.183	6.731	18.906	8.640
2022-07-14 17:15	1826102	8.334	-128.129	18.988	335.247	378.737	0.183	6.425	18.988	8.655
2022-07-14 17:30	1827002	8.328	-127.854	19.044	335.269	378.305	0.183	6.635	19.044	8.664
2022-07-14 17:45	1827902	8.337	-128.388	19.091	335.570	378.263	0.183	6.841	19.091	8.673
2022-07-14 18:00	1828802	8.352	-129.228	19.129	335.622	378.013	0.183	6.603	19.129	8.675
2022-07-14 18:15	1829702	8.340	-128.570	19.138	335.393	377.676	0.182	6.746	19.138	8.688
2022-07-14 18:30	1830602	8.345	-128.815	19.125	334.876	377.199	0.182	7.010	19.125	8.695
2022-07-14 18:45	1831502	8.349	-129.054	19.164	335.035	377.062	0.182	6.991	19.164	8.691
2022-07-14 19:00	1832402	8.370	-130.246	19.182	335.056	376.940	0.182	6.814	19.182	8.698
2022-07-14 19:15	1833302	8.359	-129.654	19.172	334.711	376.633	0.182	6.232	19.172	8.672
2022-07-14 19:30	1834202	8.360	-129.704	19.164	335.467	377.550	0.182	6.850	19.164	8.645
2022-07-14 19:45	1835102	8.360	-129.676	19.166	335.818	377.934	0.183	7.219	19.166	8.634
2022-07-14 20:00	1836002	8.376	-130.594	19.176	334.870	376.781	0.182	6.851	19.176	8.639
2022-07-14 20:15	1836902	8.367	-130.095	19.162	336.149	378.334	0.183	6.470	19.162	8.610
2022-07-14 20:30	1837802	8.359	-129.654	19.169	335.680	377.747	0.183	7.645	19.169	8.602
2022-07-14 20:45	1838702	8.362	-129.836	19.174	335.402	377.399	0.182	6.190	19.174	8.586
2022-07-14 21:00	1839602	8.382	-130.942	19.179	337.044	379.207	0.183	7.068	19.179	8.563
2022-07-14 21:15	1840502	8.367	-130.067	19.180	338.076	380.358	0.184	6.428	19.180	8.532
2022-07-14 21:30	1841402	8.366	-130.041	19.183	336.383	378.431	0.183	6.526	19.183	8.514
2022-07-14 21:45	1842302	8.371	-130.312	19.178	341.355	384.066	0.186	5.861	19.178	8.506
2022-07-14 22:00	1843202	8.384	-131.032	19.191	341.397	384.003	0.186	7.014	19.191	8.488
2022-07-14 22:15	1844102	8.372	-130.377	19.192	339.898	382.311	0.185	6.643	19.192	8.461
2022-07-14 22:30	1845002	8.366	-130.043	19.196	337.122	379.154	0.183	6.231	19.196	8.442
2022-07-14 22:45	1845902	8.368	-130.179	19.187	336.696	378.745	0.183	6.432	19.187	8.423
2022-07-14 23:00	1846802	8.383	-130.985	19.181	339.389	381.829	0.185	6.126	19.181	8.414
2022-07-14 23:15	1847702	8.368	-130.148	19.164	335.889	378.029	0.183	6.416	19.164	8.395
2022-07-14 23:30	1848602	8.371	-130.324	19.135	335.153	377.437	0.182	7.670	19.135	8.384
2022-07-14 23:45	1849502	8.369	-130.196	19.120	333.418	375.601	0.181	6.736	19.120	8.361
2022-07-15 0:00	1850402	8.384	-131.009	19.108	334.348	376.742	0.182	6.533	19.108	8.347
2022-07-15 0:15	1851302	8.370	-130.246	19.088	333.192	375.605	0.181	6.731	19.088	8.340
2022-07-15 0:30	1852202	8.373	-130.353	19.062	332.616	375.166	0.181	6.197	19.062	8.324
2022-07-15 0:45	1853102	8.366	-129.979	19.038	333.529	376.391	0.182	7.052	19.038	8.307
2022-07-15 1:00	1854002	8.381	-130.799	19.012	334.761	377.995	0.183	6.378	19.012	8.308
2022-07-15 1:15	1854902	8.366	-129.948	18.991	332.082	375.137	0.181	7.046	18.991	8.285
2022-07-15 1:30	1855802	8.368	-130.029	18.964	330.446	373.511	0.180	6.231	18.964	8.282
2022-07-15 1:45	1856702	8.359	-129.542	18.931	330.907	374.293	0.181	6.848	18.931	8.264
2022-07-15 2:00	1857602	8.377	-130.553	18.902	330.726	374.325	0.181	7.137	18.902	8.259
2022-07-15 2:15	1858502	8.363	-129.740	18.877	330.076	373.790	0.181	7.026	18.877	8.230
2022-07-15 2:30	1859402	8.364	-129.790	18.850	329.604	373.470	0.180	7.353	18.850	8.227
2022-07-15 2:45	1860302	8.362	-129.676	18.810	331.154	375.557	0.181	6.264	18.810	8.210

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-15 3:00	1861202	8.375	-130.358	18.793	329.205	373.481	0.180	6.507	18.793	8.207
2022-07-15 3:15	1862102	8.359	-129.483	18.753	328.336	372.820	0.180	6.368	18.753	8.201
2022-07-15 3:30	1863002	8.360	-129.519	18.731	328.914	373.653	0.180	6.197	18.731	8.197
2022-07-15 3:45	1863902	8.356	-129.244	18.694	329.586	374.723	0.181	6.267	18.694	8.175
2022-07-15 4:00	1864802	8.368	-129.924	18.676	328.776	373.948	0.181	6.777	18.676	8.165
2022-07-15 4:15	1865702	8.353	-129.097	18.657	328.254	373.507	0.180	6.038	18.657	8.160
2022-07-15 4:30	1866602	8.351	-128.939	18.637	328.298	373.713	0.180	7.482	18.637	8.148
2022-07-15 4:45	1867502	8.349	-128.813	18.609	327.527	373.069	0.180	5.666	18.609	8.146
2022-07-15 5:00	1868402	8.363	-129.585	18.581	327.420	373.172	0.180	8.212	18.581	8.126
2022-07-15 5:15	1869302	8.347	-128.677	18.564	326.767	372.566	0.180	6.347	18.564	8.121
2022-07-15 5:30	1870202	8.343	-128.455	18.535	326.665	372.683	0.180	6.557	18.535	8.114
2022-07-15 5:45	1871102	8.340	-128.267	18.505	326.524	372.770	0.180	6.452	18.505	8.080
2022-07-15 6:00	1872002	8.352	-128.939	18.479	326.569	373.033	0.180	7.273	18.479	8.091
2022-07-15 6:15	1872902	8.336	-128.002	18.451	326.636	373.331	0.180	6.921	18.451	8.082
2022-07-15 6:30	1873802	8.334	-127.907	18.435	326.664	373.494	0.180	8.700	18.435	8.072
2022-07-15 6:45	1874702	8.334	-127.931	18.426	325.901	372.701	0.180	6.590	18.426	8.088
2022-07-15 7:00	1875602	8.347	-128.627	18.414	326.373	373.337	0.180	8.337	18.414	8.067
2022-07-15 7:15	1876502	8.334	-127.916	18.398	325.795	372.802	0.180	7.807	18.398	8.056
2022-07-15 7:30	1877402	8.336	-127.988	18.384	325.457	372.531	0.180	6.499	18.384	8.041
2022-07-15 7:45	1878302	8.328	-127.566	18.369	325.450	372.647	0.180	6.548	18.369	8.045
2022-07-15 8:00	1879202	8.334	-127.873	18.352	325.335	372.652	0.180	6.541	18.352	8.037
2022-07-15 8:15	1880102	8.319	-127.046	18.344	325.137	372.494	0.180	10.867	18.344	8.032
2022-07-15 8:30	1881002	8.319	-126.989	18.319	325.172	372.737	0.180	6.905	18.319	8.022
2022-07-15 8:45	1881902	8.315	-126.758	18.305	325.687	373.437	0.180	6.956	18.305	7.999
2022-07-15 9:00	1882802	8.327	-127.454	18.299	324.973	372.671	0.180	7.613	18.299	8.016
2022-07-15 9:15	1883702	8.323	-127.242	18.310	325.010	372.624	0.180	7.399	18.310	8.035
2022-07-15 9:30	1884602	8.316	-126.829	18.305	324.876	372.513	0.180	7.999	18.305	8.012
2022-07-15 9:45	1885502	8.319	-127.041	18.323	325.125	372.652	0.180	10.297	18.323	8.032
2022-07-15 10:00	1886402	8.332	-127.749	18.372	326.088	373.350	0.180	7.616	18.372	8.062
2022-07-15 10:15	1887302	8.316	-126.860	18.401	325.713	372.690	0.180	7.900	18.401	8.058
2022-07-15 10:30	1888202	8.320	-127.161	18.502	326.438	372.691	0.180	6.932	18.502	8.083
2022-07-15 10:45	1889102	8.315	-126.877	18.565	326.964	372.782	0.180	7.414	18.565	8.076
2022-07-15 11:00	1890002	8.324	-127.454	18.627	327.257	372.616	0.180	8.573	18.627	8.086
2022-07-15 11:15	1890902	8.317	-127.013	18.617	327.370	372.825	0.180	9.294	18.617	8.089
2022-07-15 11:30	1891802	8.318	-127.068	18.603	327.231	372.781	0.180	6.901	18.603	8.097
2022-07-15 11:45	1892702	8.315	-126.939	18.609	327.190	372.683	0.180	8.491	18.609	8.107
2022-07-15 12:00	1893602	8.325	-127.473	18.634	327.584	372.929	0.180	8.607	18.634	8.112
2022-07-15 12:15	1894502	8.313	-126.798	18.645	327.356	372.580	0.180	7.951	18.645	8.117
2022-07-15 12:30	1895402	8.310	-126.629	18.625	326.871	372.188	0.180	7.785	18.625	8.130
2022-07-15 12:45	1896302	8.316	-126.965	18.644	327.223	372.438	0.180	8.265	18.644	8.139
2022-07-15 13:00	1897202	8.321	-127.287	18.680	327.505	372.462	0.180	9.024	18.680	8.154
2022-07-15 13:15	1898102	8.312	-126.772	18.666	327.213	372.244	0.180	7.535	18.666	8.123
2022-07-15 13:30	1899002	8.311	-126.722	18.649	327.112	372.269	0.180	10.344	18.649	8.132
2022-07-15 13:45	1899902	8.305	-126.340	18.626	326.570	371.843	0.180	7.786	18.626	8.137

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-15 14:00	1900802	8.318	-127.068	18.601	326.323	371.761	0.180	7.558	18.601	8.127
2022-07-15 14:15	1901702	8.298	-125.926	18.579	326.082	371.661	0.179	7.064	18.579	8.123
2022-07-15 14:30	1902602	8.308	-126.491	18.587	325.923	371.415	0.179	7.811	18.587	8.158
2022-07-15 14:45	1903502	8.308	-126.555	18.630	326.351	371.554	0.179	7.646	18.630	8.180
2022-07-15 15:00	1904402	8.318	-127.125	18.647	326.319	371.383	0.179	8.983	18.647	8.179
2022-07-15 15:15	1905302	8.316	-126.994	18.711	326.933	371.567	0.179	7.974	18.711	8.219
2022-07-15 15:30	1906202	8.316	-127.058	18.773	327.629	371.854	0.180	7.259	18.773	8.245
2022-07-15 15:45	1907102	8.318	-127.180	18.825	328.169	372.051	0.180	7.429	18.825	8.259
2022-07-15 16:00	1908002	8.322	-127.389	18.829	327.496	371.257	0.179	6.832	18.829	8.268
2022-07-15 16:15	1908902	8.311	-126.812	18.841	327.860	371.574	0.179	7.239	18.841	8.297
2022-07-15 16:30	1909802	8.319	-127.258	18.909	328.162	371.363	0.179	7.377	18.909	8.352
2022-07-15 16:45	1910702	8.320	-127.358	18.972	328.840	371.627	0.179	6.819	18.972	8.364
2022-07-15 17:00	1911602	8.333	-128.140	19.052	329.587	371.830	0.180	8.261	19.052	8.385
2022-07-15 17:15	1912502	8.323	-127.597	19.118	331.311	373.246	0.180	6.967	19.118	8.393
2022-07-15 17:30	1913402	8.331	-128.100	19.214	333.318	374.729	0.181	6.677	19.214	8.451
2022-07-15 17:45	1914302	8.325	-127.783	19.284	333.977	374.910	0.181	6.948	19.284	8.458
2022-07-15 18:00	1915202	8.337	-128.469	19.327	333.066	373.540	0.180	12.500	19.327	8.473
2022-07-15 18:15	1916102	8.331	-128.152	19.363	334.833	375.235	0.181	7.525	19.363	8.486
2022-07-15 18:30	1917002	8.323	-127.716	19.354	332.439	372.626	0.180	7.691	19.354	8.458
2022-07-15 18:45	1917902	8.323	-127.704	19.340	334.258	374.772	0.181	7.409	19.340	8.450
2022-07-15 19:00	1918802	8.334	-128.274	19.331	332.382	372.743	0.180	16.756	19.331	8.467
2022-07-15 19:15	1919702	8.338	-128.548	19.379	332.423	372.401	0.180	7.677	19.379	8.484
2022-07-15 19:30	1920602	8.338	-128.586	19.443	333.401	372.989	0.180	6.746	19.443	8.500
2022-07-15 19:45	1921502	8.338	-128.586	19.480	333.321	372.605	0.180	7.534	19.480	8.494
2022-07-15 20:00	1922402	8.338	-128.562	19.443	334.641	374.375	0.181	8.766	19.443	8.488
2022-07-15 20:15	1923302	8.330	-128.102	19.403	334.025	374.004	0.181	11.094	19.403	8.478
2022-07-15 20:30	1924202	8.331	-128.174	19.410	335.584	375.697	0.182	7.719	19.410	8.471
2022-07-15 20:45	1925102	8.323	-127.738	19.429	334.952	374.835	0.181	7.512	19.429	8.469
2022-07-15 21:00	1926002	8.335	-128.386	19.429	335.493	375.442	0.181	9.764	19.429	8.457
2022-07-15 21:15	1926902	8.331	-128.174	19.425	335.369	375.336	0.181	6.782	19.425	8.434
2022-07-15 21:30	1927802	8.331	-128.193	19.427	337.418	377.614	0.182	7.676	19.427	8.437
2022-07-15 21:45	1928702	8.331	-128.164	19.428	336.310	376.367	0.182	7.855	19.428	8.425
2022-07-15 22:00	1929602	8.334	-128.324	19.411	337.348	377.666	0.183	7.920	19.411	8.413
2022-07-15 22:15	1930502	8.328	-127.995	19.399	338.581	379.138	0.183	6.897	19.399	8.390
2022-07-15 22:30	1931402	8.327	-127.959	19.401	339.145	379.761	0.184	9.352	19.401	8.386
2022-07-15 22:45	1932302	8.329	-128.067	19.395	339.092	379.748	0.184	9.239	19.395	8.364
2022-07-15 23:00	1933202	8.328	-127.971	19.397	339.473	380.157	0.184	9.185	19.397	8.360
2022-07-15 23:15	1934102	8.321	-127.597	19.379	339.576	380.417	0.184	19.368	19.379	8.340
2022-07-15 23:30	1935002	8.322	-127.652	19.351	339.973	381.090	0.184	26.994	19.351	8.328
2022-07-15 23:45	1935902	8.323	-127.695	19.334	339.525	380.731	0.184	6.897	19.334	8.313
2022-07-16 0:00	1936802	8.331	-128.133	19.318	339.983	381.370	0.184	7.771	19.318	8.297
2022-07-16 0:15	1937702	8.327	-127.907	19.308	340.383	381.901	0.185	6.992	19.308	8.303
2022-07-16 0:30	1938602	8.325	-127.773	19.286	341.536	383.380	0.185	7.241	19.286	8.290
2022-07-16 0:45	1939502	8.324	-127.702	19.267	340.935	382.857	0.185	7.215	19.267	8.272

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-16 1:00	1940402	8.330	-128.028	19.236	341.496	383.746	0.186	8.113	19.236	8.272
2022-07-16 1:15	1941302	8.325	-127.726	19.216	340.980	383.325	0.185	7.438	19.216	8.265
2022-07-16 1:30	1942202	8.323	-127.609	19.175	340.882	383.556	0.185	8.469	19.175	8.250
2022-07-16 1:45	1943102	8.320	-127.451	19.140	341.642	384.700	0.186	6.685	19.140	8.241
2022-07-16 2:00	1944002	8.330	-127.978	19.112	340.599	383.755	0.186	9.502	19.112	8.236
2022-07-16 2:15	1944902	8.322	-127.513	19.080	341.105	384.594	0.186	6.777	19.080	8.220
2022-07-16 2:30	1945802	8.318	-127.304	19.055	341.429	385.167	0.186	8.133	19.055	8.210
2022-07-16 2:45	1946702	8.320	-127.358	19.015	340.471	384.412	0.186	7.307	19.015	8.206
2022-07-16 3:00	1947602	8.327	-127.735	18.970	341.897	386.401	0.187	6.985	18.970	8.197
2022-07-16 3:15	1948502	8.318	-127.213	18.932	340.125	384.714	0.186	7.224	18.932	8.190
2022-07-16 3:30	1949402	8.319	-127.299	18.905	337.262	381.700	0.184	7.432	18.905	8.173
2022-07-16 3:45	1950302	8.319	-127.239	18.867	340.184	385.321	0.186	6.490	18.867	8.165
2022-07-16 4:00	1951202	8.325	-127.583	18.824	339.730	385.166	0.186	6.913	18.824	8.156
2022-07-16 4:15	1952102	8.319	-127.206	18.782	339.298	385.022	0.186	6.951	18.782	8.145
2022-07-16 4:30	1953002	8.314	-126.932	18.744	339.087	385.103	0.186	6.551	18.744	8.140
2022-07-16 4:45	1953902	8.311	-126.715	18.699	338.976	385.355	0.186	7.210	18.699	8.125
2022-07-16 5:00	1954802	8.325	-127.518	18.667	338.416	384.987	0.186	7.943	18.667	8.118
2022-07-16 5:15	1955702	8.319	-127.144	18.631	338.048	384.865	0.186	6.336	18.631	8.111
2022-07-16 5:30	1956602	8.317	-127.032	18.604	338.022	385.064	0.186	6.331	18.604	8.098
2022-07-16 5:45	1957502	8.313	-126.810	18.573	337.816	385.086	0.186	7.212	18.573	8.083
2022-07-16 6:00	1958402	8.320	-127.149	18.537	337.834	385.407	0.186	7.964	18.537	8.080
2022-07-16 6:15	1959302	8.309	-126.519	18.512	337.023	384.695	0.186	6.610	18.512	8.067
2022-07-16 6:30	1960202	8.310	-126.588	18.484	336.746	384.610	0.186	6.781	18.484	8.062
2022-07-16 6:45	1961102	8.306	-126.340	18.453	336.336	384.404	0.186	7.399	18.453	8.046
2022-07-16 7:00	1962002	8.309	-126.476	18.427	335.823	384.034	0.186	7.457	18.427	8.043
2022-07-16 7:15	1962902	8.310	-126.545	18.415	335.608	383.891	0.186	6.737	18.415	8.031
2022-07-16 7:30	1963802	8.306	-126.300	18.391	335.357	383.806	0.185	6.900	18.391	8.031
2022-07-16 7:45	1964702	8.307	-126.343	18.378	334.791	383.263	0.185	6.500	18.378	8.034
2022-07-16 8:00	1965602	8.306	-126.295	18.368	335.022	383.613	0.185	6.951	18.368	8.033
2022-07-16 8:15	1966502	8.299	-125.923	18.363	334.767	383.365	0.185	6.513	18.363	8.036
2022-07-16 8:30	1967402	8.296	-125.716	18.343	334.601	383.347	0.185	8.246	18.343	8.024
2022-07-16 8:45	1968302	8.293	-125.535	18.321	334.325	383.209	0.185	6.312	18.321	8.009
2022-07-16 9:00	1969202	8.306	-126.300	18.314	334.152	383.069	0.185	7.881	18.314	8.022
2022-07-16 9:15	1970102	8.298	-125.854	18.358	334.295	382.869	0.185	6.546	18.358	8.030
2022-07-16 9:30	1971002	8.299	-125.926	18.406	334.418	382.609	0.185	6.564	18.406	8.035
2022-07-16 9:45	1971902	8.299	-125.942	18.441	334.701	382.636	0.185	7.298	18.441	8.049
2022-07-16 10:00	1972802	8.307	-126.426	18.477	335.146	382.846	0.185	8.715	18.477	8.059
2022-07-16 10:15	1973702	8.292	-125.611	18.533	335.380	382.643	0.185	7.299	18.533	8.066
2022-07-16 10:30	1974602	8.296	-125.854	18.576	335.608	382.544	0.185	6.668	18.576	8.068
2022-07-16 10:45	1975502	8.292	-125.635	18.597	335.208	381.918	0.185	6.422	18.597	8.072
2022-07-16 11:00	1976402	8.301	-126.131	18.651	335.395	381.684	0.184	7.981	18.651	8.067
2022-07-16 11:15	1977302	8.287	-125.370	18.707	336.062	381.971	0.185	7.275	18.707	8.054
2022-07-16 11:30	1978202	8.284	-125.256	18.789	336.397	381.673	0.184	7.397	18.789	8.059
2022-07-16 11:45	1979102	8.280	-125.082	18.859	337.132	381.928	0.185	7.710	18.859	8.060

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-16 12:00	1980002	8.291	-125.685	18.938	337.620	381.831	0.185	8.534	18.938	8.066
2022-07-16 12:15	1980902	8.288	-125.599	19.130	339.283	382.123	0.185	7.386	19.130	8.072
2022-07-16 12:30	1981802	8.285	-125.480	19.189	339.709	382.121	0.185	7.262	19.189	8.072
2022-07-16 12:45	1982702	8.286	-125.523	19.205	339.784	382.074	0.185	10.350	19.205	8.110
2022-07-16 13:00	1983602	8.301	-126.460	19.365	341.362	382.536	0.185	8.349	19.365	8.138
2022-07-16 13:15	1984502	8.296	-126.209	19.409	341.734	382.591	0.185	8.000	19.409	8.166
2022-07-16 13:30	1985402	8.293	-126.007	19.416	341.792	382.601	0.185	7.355	19.416	8.197
2022-07-16 13:45	1986302	8.297	-126.331	19.595	343.777	383.352	0.185	7.703	19.595	8.204
2022-07-16 14:00	1987202	8.302	-126.657	19.717	344.969	383.681	0.186	9.147	19.717	8.157
2022-07-16 14:15	1988102	8.298	-126.517	19.835	345.797	383.644	0.185	7.394	19.835	8.232
2022-07-16 14:30	1989002	8.302	-126.755	19.938	346.678	383.787	0.186	8.294	19.938	8.246
2022-07-16 14:45	1989902	8.304	-126.901	20.036	347.703	384.122	0.186	7.630	20.036	8.260
2022-07-16 15:00	1990802	8.301	-126.758	20.092	348.244	384.262	0.186	8.158	20.092	8.267
2022-07-16 15:15	1991702	8.289	-126.097	20.141	348.817	384.499	0.186	8.853	20.141	8.254
2022-07-16 15:30	1992602	8.291	-126.288	20.224	349.363	384.429	0.186	7.708	20.224	8.288
2022-07-16 15:45	1993502	8.294	-126.514	20.461	351.660	385.039	0.186	7.700	20.461	8.291
2022-07-16 16:00	1994402	8.299	-126.767	20.401	351.445	385.287	0.186	8.629	20.401	8.296
2022-07-16 16:15	1995302	8.299	-126.879	20.547	352.698	385.483	0.186	7.337	20.547	8.304
2022-07-16 16:30	1996202	8.287	-126.209	20.575	352.725	385.287	0.186	8.177	20.575	8.292
2022-07-16 16:45	1997102	8.289	-126.324	20.591	352.657	385.088	0.186	9.237	20.591	8.284
2022-07-16 17:00	1998002	8.290	-126.429	20.687	353.813	385.577	0.186	9.227	20.687	8.253
2022-07-16 17:15	1998902	8.293	-126.560	20.633	352.973	385.094	0.186	8.216	20.633	8.263
2022-07-16 17:30	1999802	8.292	-126.498	20.701	353.088	384.673	0.186	8.068	20.701	8.294
2022-07-16 17:45	2000702	8.299	-126.977	20.880	354.649	384.937	0.186	8.011	20.880	8.339
2022-07-16 18:00	2001602	8.292	-126.674	21.077	356.182	385.033	0.186	8.989	21.077	8.308
2022-07-16 18:15	2002502	8.283	-126.224	21.172	356.957	385.115	0.186	8.753	21.172	8.231
2022-07-16 18:30	2003402	8.283	-126.269	21.235	357.414	385.107	0.186	9.154	21.235	8.211
2022-07-16 18:45	2004302	8.283	-126.274	21.303	357.775	384.956	0.186	8.498	21.303	8.272
2022-07-16 19:00	2005202	8.277	-125.957	21.398	358.550	385.043	0.186	7.889	21.398	8.236
2022-07-16 19:15	2006102	8.279	-126.092	21.411	358.865	385.274	0.186	7.788	21.411	8.182
2022-07-16 19:30	2007002	8.274	-125.804	21.447	359.037	385.172	0.186	7.363	21.447	8.170
2022-07-16 19:45	2007902	8.271	-125.675	21.478	359.444	385.371	0.186	7.864	21.478	8.162
2022-07-16 20:00	2008802	8.264	-125.253	21.492	359.662	385.492	0.186	8.463	21.492	8.138
2022-07-16 20:15	2009702	8.266	-125.415	21.518	359.924	385.570	0.187	7.868	21.518	8.124
2022-07-16 20:30	2010602	8.256	-124.850	21.538	360.267	385.773	0.187	7.071	21.538	8.112
2022-07-16 20:45	2011502	8.249	-124.459	21.562	360.536	385.877	0.187	7.995	21.562	8.096
2022-07-16 21:00	2012402	8.255	-124.764	21.539	360.417	385.927	0.187	11.852	21.539	8.076
2022-07-16 21:15	2013302	8.251	-124.555	21.524	360.668	386.315	0.187	7.922	21.524	8.045
2022-07-16 21:30	2014202	8.255	-124.748	21.497	360.525	386.376	0.187	7.726	21.497	8.036
2022-07-16 21:45	2015102	8.250	-124.474	21.467	360.387	386.463	0.187	7.355	21.467	8.006
2022-07-16 22:00	2016002	8.248	-124.319	21.425	360.440	386.856	0.187	9.057	21.425	7.985
2022-07-16 22:15	2016902	8.252	-124.521	21.371	360.078	386.892	0.187	8.931	21.371	7.955
2022-07-16 22:30	2017802	8.248	-124.297	21.318	359.788	387.003	0.187	7.538	21.318	7.944
2022-07-16 22:45	2018702	8.248	-124.288	21.258	359.540	387.216	0.187	8.489	21.258	7.916

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-16 23:00	2019602	8.250	-124.335	21.195	359.182	387.331	0.187	10.140	21.195	7.917
2022-07-16 23:15	2020502	8.241	-123.796	21.134	358.733	387.333	0.187	7.711	21.134	7.906
2022-07-16 23:30	2021402	8.241	-123.813	21.079	358.360	387.372	0.187	7.467	21.079	7.904
2022-07-16 23:45	2022302	8.249	-124.221	21.021	357.974	387.422	0.187	8.215	21.021	7.884
2022-07-17 0:00	2023202	8.247	-124.063	20.962	357.691	387.587	0.187	16.593	20.962	7.885
2022-07-17 0:15	2024102	8.243	-123.858	20.906	357.351	387.668	0.188	8.166	20.906	7.866
2022-07-17 0:30	2025002	8.243	-123.801	20.849	356.972	387.713	0.188	7.326	20.849	7.859
2022-07-17 0:45	2025902	8.244	-123.818	20.791	356.444	387.606	0.187	7.839	20.791	7.859
2022-07-17 1:00	2026802	8.244	-123.832	20.728	356.161	387.802	0.188	8.312	20.728	7.846
2022-07-17 1:15	2027702	8.241	-123.601	20.660	355.772	387.932	0.188	8.665	20.660	7.836
2022-07-17 1:30	2028602	8.239	-123.494	20.588	355.202	387.886	0.188	8.320	20.588	7.822
2022-07-17 1:45	2029502	8.237	-123.363	20.524	354.695	387.852	0.188	7.645	20.524	7.819
2022-07-17 2:00	2030402	8.244	-123.730	20.455	354.158	387.829	0.188	22.661	20.455	7.768
2022-07-17 2:15	2031302	8.242	-123.575	20.392	353.590	387.717	0.188	5.507	20.392	7.791
2022-07-17 2:30	2032202	8.240	-123.434	20.322	353.193	387.845	0.188	6.351	20.322	7.799
2022-07-17 2:45	2033102	8.240	-123.382	20.260	352.539	387.634	0.187	6.309	20.260	7.786
2022-07-17 3:00	2034002	8.250	-123.904	20.193	352.085	387.680	0.188	9.951	20.193	7.784
2022-07-17 3:15	2034902	8.242	-123.434	20.133	351.686	387.731	0.188	6.185	20.133	7.767
2022-07-17 3:30	2035802	8.241	-123.394	20.067	351.252	387.790	0.188	5.351	20.067	7.767
2022-07-17 3:45	2036702	8.243	-123.451	19.993	350.650	387.730	0.188	5.772	19.993	7.770
2022-07-17 4:00	2037602	8.248	-123.703	19.939	350.287	387.774	0.188	11.745	19.939	7.761
2022-07-17 4:15	2038502	8.241	-123.267	19.872	349.813	387.794	0.188	5.955	19.872	7.758
2022-07-17 4:30	2039402	8.243	-123.358	19.812	349.311	387.735	0.188	5.866	19.812	7.756
2022-07-17 4:45	2040302	8.243	-123.327	19.754	349.022	387.890	0.188	5.567	19.754	7.739
2022-07-17 5:00	2041202	8.249	-123.684	19.696	348.716	388.024	0.188	7.696	19.696	7.742
2022-07-17 5:15	2042102	8.236	-122.895	19.638	348.052	387.764	0.188	5.917	19.638	7.746
2022-07-17 5:30	2043002	8.239	-123.034	19.576	347.558	387.727	0.188	6.575	19.576	7.733
2022-07-17 5:45	2043902	8.243	-123.234	19.518	347.121	387.718	0.187	6.165	19.518	7.732
2022-07-17 6:00	2044802	8.253	-123.785	19.465	346.787	387.780	0.188	6.011	19.465	7.740
2022-07-17 6:15	2045702	8.244	-123.239	19.410	346.167	387.542	0.187	6.581	19.410	7.740
2022-07-17 6:30	2046602	8.245	-123.301	19.363	345.833	387.560	0.187	5.879	19.363	7.727
2022-07-17 6:45	2047502	8.242	-123.091	19.307	345.374	387.510	0.187	6.733	19.307	7.734
2022-07-17 7:00	2048402	8.255	-123.808	19.260	345.019	387.499	0.187	6.289	19.260	7.742
2022-07-17 7:15	2049302	8.244	-123.172	19.214	344.354	387.138	0.187	6.053	19.214	7.759
2022-07-17 7:30	2050202	8.246	-123.260	19.177	344.134	387.196	0.187	6.382	19.177	7.757
2022-07-17 7:45	2051102	8.242	-123.055	19.141	343.893	387.230	0.187	5.690	19.141	7.758
2022-07-17 8:00	2052002	8.256	-123.820	19.104	343.824	387.456	0.187	6.818	19.104	7.768
2022-07-17 8:15	2052902	8.247	-123.286	19.080	343.187	386.943	0.187	5.689	19.080	7.776
2022-07-17 8:30	2053802	8.252	-123.572	19.045	342.753	386.737	0.187	6.343	19.045	7.790
2022-07-17 8:45	2054702	8.253	-123.582	19.007	342.376	386.631	0.187	5.709	19.007	7.801
2022-07-17 9:00	2055602	8.262	-124.106	18.986	342.195	386.600	0.187	5.951	18.986	7.817
2022-07-17 9:15	2056502	8.252	-123.522	18.985	341.940	386.320	0.187	5.799	18.985	7.832
2022-07-17 9:30	2057402	8.253	-123.572	18.998	341.841	386.102	0.187	6.031	18.998	7.849
2022-07-17 9:45	2058302	8.255	-123.699	18.999	341.893	386.157	0.187	6.804	18.999	7.867

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-17 10:00	2059202	8.272	-124.662	19.004	341.919	386.141	0.187	7.378	19.004	7.900
2022-07-17 10:15	2060102	8.262	-124.102	19.039	341.937	385.874	0.187	5.382	19.039	7.928
2022-07-17 10:30	2061002	8.265	-124.311	19.082	342.135	385.740	0.186	5.950	19.082	7.943
2022-07-17 10:45	2061902	8.268	-124.485	19.131	342.561	385.809	0.187	6.004	19.131	7.959
2022-07-17 11:00	2062802	8.275	-124.896	19.191	343.284	386.124	0.187	6.984	19.191	7.934
2022-07-17 11:15	2063702	8.271	-124.726	19.252	343.440	385.799	0.187	5.042	19.252	8.014
2022-07-17 11:30	2064602	8.271	-124.745	19.317	343.805	385.663	0.186	5.708	19.317	8.039
2022-07-17 11:45	2065502	8.275	-125.003	19.394	344.452	385.756	0.187	6.688	19.394	8.063
2022-07-17 12:00	2066402	8.288	-125.773	19.478	345.332	386.047	0.187	9.799	19.478	8.078
2022-07-17 12:15	2067302	8.273	-124.936	19.528	345.646	385.986	0.187	8.045	19.528	8.083
2022-07-17 12:30	2068202	8.274	-125.041	19.672	346.691	385.967	0.187	6.777	19.672	8.081
2022-07-17 12:45	2069102	8.279	-125.384	19.802	347.413	385.703	0.187	6.424	19.802	8.127
2022-07-17 13:00	2070002	8.291	-126.090	19.823	347.827	385.994	0.187	8.047	19.823	8.159
2022-07-17 13:15	2070902	8.280	-125.549	19.953	348.928	386.155	0.187	6.709	19.953	8.181
2022-07-17 13:30	2071802	8.282	-125.639	19.977	348.965	386.000	0.187	6.688	19.977	8.212
2022-07-17 13:45	2072702	8.283	-125.716	20.041	349.660	386.244	0.187	7.364	20.041	8.228
2022-07-17 14:00	2073602	8.298	-126.600	20.145	350.563	386.394	0.187	8.281	20.145	8.245
2022-07-17 14:15	2074502	8.290	-126.228	20.245	351.276	386.369	0.187	6.334	20.245	8.251
2022-07-17 14:30	2075402	8.292	-126.381	20.332	352.049	386.507	0.187	6.528	20.332	8.275
2022-07-17 14:45	2076302	8.289	-126.224	20.336	352.158	386.599	0.187	7.385	20.336	8.279
2022-07-17 15:00	2077202	8.294	-126.534	20.444	352.780	386.408	0.187	8.285	20.444	8.302
2022-07-17 15:15	2078102	8.284	-126.007	20.545	353.711	386.612	0.187	6.879	20.545	8.301
2022-07-17 15:30	2079002	8.287	-126.224	20.612	354.290	386.698	0.187	7.456	20.612	8.306
2022-07-17 15:45	2079902	8.283	-125.978	20.637	354.414	386.635	0.187	7.263	20.637	8.317
2022-07-17 16:00	2080802	8.297	-126.832	20.722	355.315	386.928	0.187	9.879	20.722	8.333
2022-07-17 16:15	2081702	8.291	-126.481	20.747	355.206	386.611	0.187	7.754	20.747	8.310
2022-07-17 16:30	2082602	8.294	-126.717	20.871	356.653	387.191	0.187	8.349	20.871	8.320
2022-07-17 16:45	2083502	8.288	-126.400	20.929	356.924	387.014	0.187	7.775	20.929	8.325
2022-07-17 17:00	2084402	8.298	-126.956	20.936	357.051	387.095	0.187	9.246	20.936	8.339
2022-07-17 17:15	2085302	8.293	-126.688	21.015	357.739	387.209	0.187	9.858	21.015	8.344
2022-07-17 17:30	2086202	8.291	-126.567	20.992	357.680	387.328	0.187	7.350	20.992	8.333
2022-07-17 17:45	2087102	8.292	-126.636	21.006	357.653	387.188	0.187	7.566	21.006	8.331
2022-07-17 18:00	2088002	8.292	-126.677	21.053	358.196	387.403	0.187	8.211	21.053	8.362
2022-07-17 18:15	2088902	8.287	-126.383	21.057	358.276	387.458	0.187	6.899	21.057	8.362
2022-07-17 18:30	2089802	8.288	-126.445	21.051	358.177	387.392	0.187	7.851	21.051	8.354
2022-07-17 18:45	2090702	8.291	-126.612	21.080	358.315	387.316	0.187	10.695	21.080	8.350
2022-07-17 19:00	2091602	8.300	-127.175	21.135	358.925	387.537	0.187	7.729	21.135	8.368
2022-07-17 19:15	2092502	8.284	-126.283	21.134	358.783	387.385	0.187	7.447	21.134	8.338
2022-07-17 19:30	2093402	8.284	-126.274	21.153	358.957	387.422	0.187	6.934	21.153	8.314
2022-07-17 19:45	2094302	8.277	-125.895	21.205	359.618	387.724	0.188	7.657	21.205	8.264
2022-07-17 20:00	2095202	8.287	-126.426	21.184	359.441	387.697	0.188	8.101	21.184	8.252
2022-07-17 20:15	2096102	8.277	-125.859	21.190	359.472	387.687	0.188	9.673	21.190	8.217
2022-07-17 20:30	2097002	8.272	-125.577	21.177	359.701	388.035	0.188	7.361	21.177	8.210
2022-07-17 20:45	2097902	8.269	-125.430	21.163	359.437	387.863	0.188	14.102	21.163	8.170

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-17 21:00	2098802	8.278	-125.930	21.145	359.207	387.759	0.188	12.574	21.145	8.176
2022-07-17 21:15	2099702	8.265	-125.175	21.119	359.044	387.786	0.188	7.370	21.119	8.114
2022-07-17 21:30	2100602	8.262	-125.000	21.088	358.784	387.756	0.188	7.374	21.088	8.143
2022-07-17 21:45	2101502	8.263	-125.031	21.060	358.349	387.511	0.187	7.223	21.060	8.113
2022-07-17 22:00	2102402	8.270	-125.434	21.028	358.510	387.941	0.188	10.076	21.028	8.099
2022-07-17 22:15	2103302	8.256	-124.636	21.013	358.521	388.076	0.188	6.828	21.013	8.040
2022-07-17 22:30	2104202	8.254	-124.474	20.998	358.457	388.125	0.188	8.056	20.998	8.008
2022-07-17 22:45	2105102	8.252	-124.357	20.995	358.389	388.079	0.188	6.974	20.995	7.965
2022-07-17 23:00	2106002	8.253	-124.416	20.984	358.469	388.254	0.188	10.576	20.984	7.955
2022-07-17 23:15	2106902	8.249	-124.228	20.981	358.361	388.156	0.188	7.989	20.981	7.930
2022-07-17 23:30	2107802	8.243	-123.880	20.965	358.418	388.349	0.188	7.037	20.965	7.895
2022-07-17 23:45	2108702	8.244	-123.911	20.949	358.407	388.463	0.188	7.122	20.949	7.876
2022-07-18 0:00	2109602	8.251	-124.292	20.923	358.450	388.722	0.188	7.089	20.923	7.856
2022-07-18 0:15	2110502	8.243	-123.820	20.915	358.338	388.664	0.188	7.586	20.915	7.839
2022-07-18 0:30	2111402	8.245	-123.949	20.896	358.242	388.708	0.188	7.119	20.896	7.807
2022-07-18 0:45	2112302	8.236	-123.441	20.882	358.254	388.840	0.188	6.720	20.882	7.794
2022-07-18 1:00	2113202	8.244	-123.861	20.855	358.099	388.886	0.188	6.570	20.855	7.779
2022-07-18 1:15	2114102	8.236	-123.420	20.837	357.869	388.779	0.188	7.526	20.837	7.768
2022-07-18 1:30	2115002	8.229	-123.034	20.816	357.848	388.930	0.188	7.070	20.816	7.743
2022-07-18 1:45	2115902	8.235	-123.324	20.800	357.671	388.867	0.188	6.768	20.800	7.730
2022-07-18 2:00	2116802	8.241	-123.646	20.778	357.724	389.099	0.188	9.499	20.778	7.720
2022-07-18 2:15	2117702	8.231	-123.117	20.758	357.529	389.048	0.188	6.049	20.758	7.690
2022-07-18 2:30	2118602	8.235	-123.296	20.730	357.566	389.318	0.188	6.762	20.730	7.682
2022-07-18 2:45	2119502	8.229	-122.976	20.711	357.375	389.267	0.188	6.599	20.711	7.666
2022-07-18 3:00	2120402	8.236	-123.348	20.684	357.280	389.376	0.188	6.288	20.684	7.653
2022-07-18 3:15	2121302	8.245	-123.851	20.647	356.765	389.115	0.188	7.235	20.647	7.634
2022-07-18 3:30	2122202	8.237	-123.389	20.610	356.626	389.269	0.188	6.834	20.610	7.614
2022-07-18 3:45	2123102	8.236	-123.312	20.586	356.341	389.152	0.188	7.794	20.586	7.602
2022-07-18 4:00	2124002	8.225	-122.666	20.553	356.382	389.461	0.188	8.610	20.553	7.589
2022-07-18 4:15	2124902	8.226	-122.731	20.526	356.067	389.337	0.188	7.200	20.526	7.588
2022-07-18 4:30	2125802	8.223	-122.511	20.486	355.710	389.275	0.188	6.771	20.486	7.567
2022-07-18 4:45	2126702	8.215	-122.075	20.454	355.534	389.338	0.188	8.703	20.454	7.557
2022-07-18 5:00	2127602	8.221	-122.404	20.412	355.377	389.512	0.188	14.281	20.412	7.544
2022-07-18 5:15	2128502	8.215	-122.006	20.378	354.737	389.086	0.188	6.702	20.378	7.520
2022-07-18 5:30	2129402	8.211	-121.803	20.332	354.459	389.152	0.188	7.518	20.332	7.501
2022-07-18 5:45	2130302	8.211	-121.796	20.292	354.263	389.268	0.188	7.152	20.292	7.486
2022-07-18 6:00	2131202	8.219	-122.180	20.243	354.184	389.583	0.188	10.524	20.243	7.490
2022-07-18 6:15	2132102	8.208	-121.541	20.204	353.709	389.377	0.188	8.953	20.204	7.479
2022-07-18 6:30	2133002	8.216	-122.006	20.167	353.413	389.352	0.188	6.232	20.167	7.488
2022-07-18 6:45	2133902	8.207	-121.491	20.134	353.087	389.267	0.188	6.578	20.134	7.489
2022-07-18 7:00	2134802	8.214	-121.882	20.101	352.828	389.250	0.188	7.797	20.101	7.474
2022-07-18 7:15	2135702	8.207	-121.467	20.074	352.471	389.079	0.188	11.570	20.074	7.470
2022-07-18 7:30	2136602	8.208	-121.522	20.042	352.289	389.138	0.188	7.434	20.042	7.469
2022-07-18 7:45	2137502	8.215	-121.891	20.027	352.288	389.266	0.188	7.717	20.027	7.482

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-18 8:00	2138402	8.217	-121.989	20.031	352.385	389.338	0.188	9.430	20.031	7.492
2022-07-18 8:15	2139302	8.214	-121.834	20.031	352.348	389.297	0.188	6.802	20.031	7.499
2022-07-18 8:30	2140202	8.205	-121.317	20.018	352.044	389.063	0.188	6.548	20.018	7.474
2022-07-18 8:45	2141102	8.205	-121.338	20.019	351.972	388.981	0.188	7.559	20.019	7.483
2022-07-18 9:00	2142002	8.210	-121.617	20.019	352.212	389.239	0.188	7.450	20.019	7.499
2022-07-18 9:15	2142902	8.207	-121.450	20.009	352.051	389.144	0.188	7.100	20.009	7.488
2022-07-18 9:30	2143802	8.210	-121.565	20.003	351.705	388.812	0.188	6.813	20.003	7.505
2022-07-18 9:45	2144702	8.203	-121.231	20.018	351.792	388.789	0.188	7.121	20.018	7.521
2022-07-18 10:00	2145602	8.212	-121.703	20.053	352.323	389.088	0.188	11.153	20.053	7.538
2022-07-18 10:15	2146502	8.217	-122.027	20.124	352.697	388.916	0.188	6.967	20.124	7.564
2022-07-18 10:30	2147402	8.222	-122.325	20.192	353.240	388.958	0.188	6.372	20.192	7.590
2022-07-18 10:45	2148302	8.224	-122.499	20.268	353.697	388.843	0.188	6.143	20.268	7.571
2022-07-18 11:00	2149202	8.226	-122.652	20.437	355.075	388.973	0.188	7.617	20.437	7.685
2022-07-18 11:15	2150102	8.227	-122.786	20.591	356.192	388.943	0.188	6.621	20.591	7.686
2022-07-18 11:30	2151002	8.229	-122.948	20.723	357.282	389.065	0.188	6.233	20.723	7.714
2022-07-18 11:45	2151902	8.229	-123.007	20.799	357.912	389.138	0.188	6.527	20.799	7.744
2022-07-18 12:00	2152802	8.239	-123.620	20.963	359.173	389.178	0.188	11.714	20.963	7.776
2022-07-18 12:15	2153702	8.237	-123.610	21.121	360.456	389.303	0.188	6.472	21.121	7.816
2022-07-18 12:30	2154602	8.239	-123.792	21.355	362.577	389.708	0.189	7.200	21.355	7.818
2022-07-18 12:45	2155502	8.234	-123.620	21.554	364.434	390.111	0.189	7.870	21.554	7.801
2022-07-18 13:00	2156402	8.237	-123.870	21.798	366.508	390.381	0.189	9.276	21.798	7.844
2022-07-18 13:15	2157302	8.237	-123.866	21.741	365.942	390.237	0.189	6.961	21.741	7.905
2022-07-18 13:30	2158202	8.236	-123.880	21.892	367.296	390.475	0.189	5.913	21.892	7.887
2022-07-18 13:45	2159102	8.235	-123.837	22.015	368.080	390.333	0.189	6.735	22.015	7.866
2022-07-18 14:00	2160002	8.232	-123.692	22.060	368.653	390.590	0.189	10.481	22.060	7.948
2022-07-18 14:15	2160902	8.225	-123.281	22.086	368.849	390.591	0.189	6.198	22.086	7.898
2022-07-18 14:30	2161802	8.232	-123.758	22.217	369.876	390.641	0.189	6.729	22.217	7.969
2022-07-18 14:45	2162702	8.236	-124.083	22.400	371.683	391.105	0.189	6.609	22.400	7.976
2022-07-18 15:00	2163602	8.227	-123.653	22.641	373.882	391.521	0.189	6.912	22.641	7.979
2022-07-18 15:15	2164502	8.245	-124.667	22.632	373.255	390.939	0.189	5.739	22.632	8.019
2022-07-18 15:30	2165402	8.243	-124.626	22.737	374.250	391.155	0.189	7.401	22.737	8.013
2022-07-18 15:45	2166302	8.244	-124.655	22.759	374.625	391.381	0.189	5.266	22.759	8.063
2022-07-18 16:00	2167202	8.237	-124.362	22.940	376.483	391.901	0.190	20.298	22.940	8.031
2022-07-18 16:15	2168102	8.244	-124.779	23.001	377.050	392.016	0.190	6.092	23.001	7.984
2022-07-18 16:30	2169002	8.249	-124.891	22.651	373.202	390.734	0.189	5.239	22.651	8.070
2022-07-18 16:45	2169902	8.254	-125.148	22.531	372.206	390.630	0.189	5.940	22.531	8.112
2022-07-18 17:00	2170802	8.246	-124.662	22.522	371.981	390.465	0.189	6.536	22.522	8.172
2022-07-18 17:15	2171702	8.263	-125.628	22.470	371.104	389.948	0.189	5.995	22.470	8.120
2022-07-18 17:30	2172602	8.254	-125.031	22.285	369.254	389.447	0.188	5.713	22.285	8.122
2022-07-18 17:45	2173502	8.257	-125.198	22.222	368.855	389.520	0.188	6.063	22.222	8.063
2022-07-18 18:00	2174402	8.260	-125.413	22.381	370.231	389.730	0.189	10.220	22.381	8.149
2022-07-18 18:15	2175302	8.256	-125.136	22.223	369.066	389.735	0.189	5.421	22.223	8.097
2022-07-18 18:30	2176202	8.254	-124.955	22.107	367.677	389.181	0.188	5.556	22.107	8.032
2022-07-18 18:45	2177102	8.271	-125.904	22.068	367.283	389.067	0.188	5.273	22.068	8.116

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-18 19:00	2178002	8.259	-125.191	21.987	366.709	389.098	0.188	6.700	21.987	8.134
2022-07-18 19:15	2178902	8.269	-125.735	21.958	366.288	388.884	0.188	5.742	21.958	8.164
2022-07-18 19:30	2179802	8.264	-125.456	21.856	365.839	389.209	0.188	5.702	21.856	8.103
2022-07-18 19:45	2180702	8.264	-125.396	21.766	365.161	389.200	0.188	6.215	21.766	8.079
2022-07-18 20:00	2181602	8.262	-125.227	21.659	364.502	389.349	0.188	8.374	21.659	8.059
2022-07-18 20:15	2182502	8.259	-125.036	21.548	363.499	389.161	0.188	5.640	21.548	8.000
2022-07-18 20:30	2183402	8.259	-124.965	21.461	362.951	389.265	0.188	5.624	21.461	7.983
2022-07-18 20:45	2184302	8.263	-125.189	21.376	362.265	389.202	0.188	6.049	21.376	7.961
2022-07-18 21:00	2185202	8.258	-124.876	21.292	361.853	389.430	0.188	8.669	21.292	7.942
2022-07-18 21:15	2186102	8.243	-123.956	21.216	362.071	390.277	0.189	5.806	21.216	7.888
2022-07-18 21:30	2187002	8.236	-123.560	21.136	361.162	389.941	0.189	5.815	21.136	7.845
2022-07-18 21:45	2187902	8.235	-123.453	21.052	361.341	390.813	0.189	5.522	21.052	7.790
2022-07-18 22:00	2188802	8.244	-123.911	20.982	360.954	390.955	0.189	8.150	20.982	7.826
2022-07-18 22:15	2189702	8.241	-123.723	20.933	360.010	390.331	0.189	6.166	20.933	7.778
2022-07-18 22:30	2190602	8.232	-123.224	20.878	360.256	391.045	0.189	5.668	20.878	7.747
2022-07-18 22:45	2191502	8.242	-123.746	20.835	358.860	389.875	0.189	5.702	20.835	7.751
2022-07-18 23:00	2192402	8.236	-123.394	20.787	358.453	389.822	0.189	8.903	20.787	7.740
2022-07-18 23:15	2193302	8.236	-123.365	20.745	358.218	389.909	0.189	4.993	20.745	7.721
2022-07-18 23:30	2194202	8.232	-123.131	20.702	357.650	389.636	0.189	6.099	20.702	7.714
2022-07-18 23:45	2195102	8.235	-123.312	20.677	357.723	389.914	0.189	6.207	20.677	7.708
2022-07-19 0:00	2196002	8.231	-123.048	20.646	357.936	390.400	0.189	8.991	20.646	7.689
2022-07-19 0:15	2196902	8.224	-122.650	20.622	357.286	389.887	0.189	5.189	20.622	7.634
2022-07-19 0:30	2197802	8.225	-122.695	20.597	357.523	390.347	0.189	5.391	20.597	7.592
2022-07-19 0:45	2198702	8.226	-122.721	20.572	357.104	390.098	0.189	5.612	20.572	7.578
2022-07-19 1:00	2199602	8.225	-122.681	20.539	356.915	390.156	0.189	7.711	20.539	7.556
2022-07-19 1:15	2200502	8.214	-122.020	20.520	356.929	390.329	0.189	6.230	20.520	7.518
2022-07-19 1:30	2201402	8.215	-122.066	20.494	356.672	390.259	0.189	5.755	20.494	7.501
2022-07-19 1:45	2202302	8.211	-121.825	20.457	356.556	390.437	0.189	6.313	20.457	7.506
2022-07-19 2:00	2203202	8.212	-121.899	20.419	356.766	390.972	0.189	16.939	20.419	7.474
2022-07-19 2:15	2204102	8.207	-121.586	20.385	356.138	390.567	0.189	5.499	20.385	7.411
2022-07-19 2:30	2205002	8.206	-121.508	20.352	356.075	390.768	0.189	5.855	20.352	7.415
2022-07-19 2:45	2205902	8.200	-121.164	20.309	356.040	391.079	0.189	5.932	20.309	7.370
2022-07-19 3:00	2206802	8.209	-121.648	20.272	355.565	390.859	0.189	9.545	20.272	7.370
2022-07-19 3:15	2207702	8.198	-120.978	20.218	355.257	390.969	0.189	5.431	20.218	7.273
2022-07-19 3:30	2208603	8.201	-121.131	20.182	354.779	390.740	0.189	5.383	20.182	7.336
2022-07-19 3:45	2209503	8.204	-121.291	20.149	354.689	390.908	0.189	5.643	20.149	7.315
2022-07-19 4:00	2210403	8.205	-121.357	20.101	354.645	391.253	0.189	8.612	20.101	7.329
2022-07-19 4:15	2211303	8.199	-120.990	20.070	354.179	390.997	0.189	5.940	20.070	7.276
2022-07-19 4:30	2212203	8.190	-120.466	20.031	354.452	391.621	0.189	739.172	20.031	7.179
2022-07-19 4:45	2213103	8.185	-120.203	20.005	354.234	391.593	0.189	5.303	20.005	7.289
2022-07-19 5:00	2214003	8.200	-121.031	19.969	353.851	391.465	0.189	8.556	19.969	7.283
2022-07-19 5:15	2214903	8.188	-120.327	19.913	353.294	391.311	0.189	5.902	19.913	7.267
2022-07-19 5:30	2215803	8.191	-120.444	19.877	352.999	391.283	0.189	4.781	19.877	7.255
2022-07-19 5:45	2216703	8.192	-120.492	19.849	352.799	391.292	0.189	5.110	19.849	7.263

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-19 6:00	2217603	8.208	-121.386	19.803	352.400	391.233	0.189	7.115	19.803	7.278
2022-07-19 6:15	2218503	8.197	-120.761	19.766	351.990	391.089	0.189	5.242	19.766	7.289
2022-07-19 6:30	2219403	8.199	-120.835	19.739	352.048	391.380	0.189	5.423	19.739	7.305
2022-07-19 6:45	2220303	8.201	-120.976	19.733	351.727	391.070	0.189	4.718	19.733	7.304
2022-07-19 7:00	2221203	8.211	-121.543	19.717	351.678	391.151	0.189	12.246	19.717	7.281
2022-07-19 7:15	2222103	8.199	-120.838	19.684	351.574	391.305	0.189	4.899	19.684	7.254
2022-07-19 7:30	2223003	8.198	-120.764	19.654	351.245	391.190	0.189	6.465	19.654	7.233
2022-07-19 7:45	2223903	8.202	-120.986	19.655	350.962	390.867	0.189	5.272	19.655	7.269
2022-07-19 8:00	2224803	8.214	-121.691	19.637	351.093	391.164	0.189	6.296	19.637	7.269
2022-07-19 8:15	2225703	8.205	-121.140	19.636	350.926	390.982	0.189	4.341	19.636	7.291
2022-07-19 8:30	2226603	8.202	-120.983	19.630	359.700	400.808	0.194	3129.393	19.630	7.280
2022-07-19 8:45	2227503	8.205	-121.143	19.612	351.588	391.919	0.190	5.094	19.612	7.264
2022-07-19 9:00	2228403	8.215	-121.727	19.605	350.916	391.234	0.189	5.439	19.605	7.307
2022-07-19 9:15	2229303	8.208	-121.343	19.609	350.877	391.156	0.189	11.330	19.609	7.299
2022-07-19 9:30	2230203	8.216	-121.791	19.689	352.244	392.006	0.190	5.182	19.689	7.387
2022-07-19 9:45	2231103	8.224	-122.294	19.819	352.998	391.764	0.190	4.662	19.819	7.395
2022-07-19 10:00	2232003	8.234	-122.919	19.882	354.227	392.602	0.190	8.269	19.882	7.428
2022-07-19 10:15	2232903	8.231	-122.743	19.982	361.028	399.301	0.193	5.670	19.982	7.468
2022-07-19 10:30	2233803	8.229	-122.666	20.001	357.316	395.033	0.191	4.463	20.001	7.483
2022-07-19 10:45	2234703	8.228	-122.600	20.047	359.840	397.438	0.192	4.619	20.047	7.189
2022-07-19 11:00	2235603	8.239	-123.267	20.060	358.371	395.711	0.191	8.250	20.060	7.541
2022-07-19 11:15	2236503	8.232	-122.886	20.149	361.527	398.448	0.193	4.941	20.149	7.584
2022-07-19 11:30	2237403	8.230	-122.793	20.201	359.654	395.948	0.192	6.026	20.201	7.604
2022-07-19 11:45	2238303	8.236	-123.172	20.275	361.440	397.297	0.192	5.478	20.275	7.603
2022-07-19 12:00	2239203	8.243	-123.622	20.333	365.369	401.122	0.194	9.799	20.333	7.640
2022-07-19 12:15	2240103	8.234	-123.081	20.289	366.653	402.908	0.195	4.213	20.289	7.595
2022-07-19 12:30	2241003	8.232	-122.952	20.290	364.624	400.671	0.194	4.802	20.290	7.594
2022-07-19 12:45	2241903	8.234	-123.088	20.348	361.807	397.087	0.192	5.101	20.348	7.623
2022-07-19 13:00	2242803	8.237	-123.241	20.306	363.683	399.504	0.193	9.315	20.306	7.650
2022-07-19 13:15	2243703	8.232	-122.962	20.366	363.344	398.627	0.193	5.201	20.366	7.680
2022-07-19 13:30	2244603	8.233	-123.057	20.434	364.970	399.844	0.194	5.927	20.434	7.657
2022-07-19 13:45	2245503	8.243	-123.672	20.471	363.416	397.833	0.193	4.324	20.471	7.695
2022-07-19 14:00	2246403	8.244	-123.715	20.448	362.215	396.706	0.192	10.684	20.448	7.677
2022-07-19 14:15	2247303	8.246	-123.858	20.501	362.574	396.657	0.192	4.403	20.501	7.744
2022-07-19 14:30	2248203	8.246	-123.827	20.490	363.608	397.883	0.193	5.563	20.490	7.754
2022-07-19 14:45	2249103	8.253	-124.333	20.694	364.550	397.220	0.192	6.034	20.694	7.799
2022-07-19 15:00	2250003	8.253	-124.276	20.590	369.459	403.443	0.195	7.867	20.590	7.798
2022-07-19 15:15	2250903	8.255	-124.452	20.699	367.376	400.256	0.194	4.444	20.699	7.872
2022-07-19 15:30	2251803	8.246	-123.885	20.664	362.565	395.306	0.191	7.328	20.664	7.810
2022-07-19 15:45	2252703	8.253	-124.362	20.781	361.913	393.635	0.190	4.273	20.781	7.913
2022-07-19 16:00	2253603	8.263	-124.996	20.904	364.461	395.396	0.191	12.111	20.904	7.910
2022-07-19 16:15	2254503	8.259	-124.750	20.963	365.823	396.385	0.192	4.260	20.963	7.897
2022-07-19 16:30	2255403	8.257	-124.667	21.043	365.521	395.407	0.191	4.637	21.043	7.918
2022-07-19 16:45	2256303	8.252	-124.426	21.109	365.870	395.243	0.191	8.902	21.109	7.905

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-19 17:00	2257203	8.266	-125.256	21.223	369.659	398.399	0.193	7.144	21.223	7.962
2022-07-19 17:15	2258103	8.262	-125.015	21.187	366.349	395.123	0.191	4.441	21.187	7.937
2022-07-19 17:30	2259003	8.264	-125.151	21.134	363.948	392.965	0.190	3.955	21.134	7.948
2022-07-19 17:45	2259903	8.266	-125.222	21.095	365.302	394.746	0.191	4.326	21.095	8.023
2022-07-19 18:00	2260803	8.264	-125.058	21.030	364.356	394.251	0.191	18.196	21.030	7.967
2022-07-19 18:15	2261703	8.254	-124.528	21.017	363.380	393.299	0.190	4.463	21.017	7.838
2022-07-19 18:30	2262603	8.266	-125.206	21.093	364.078	393.439	0.190	4.611	21.093	8.004
2022-07-19 18:45	2263503	8.265	-125.163	21.076	364.698	394.242	0.191	5.097	21.076	7.996
2022-07-19 19:00	2264403	8.266	-125.177	20.981	363.526	393.754	0.191	6.576	20.981	7.910
2022-07-19 19:15	2265303	8.266	-125.153	20.985	363.237	393.406	0.190	4.638	20.985	7.993
2022-07-19 19:30	2266203	8.266	-125.144	20.940	361.132	391.489	0.189	4.413	20.940	7.961
2022-07-19 19:45	2267103	8.259	-124.753	20.864	362.254	393.322	0.190	6.601	20.864	7.896
2022-07-19 20:00	2268003	8.272	-125.461	20.819	361.303	392.656	0.190	7.772	20.819	7.908
2022-07-19 20:15	2268903	8.265	-125.053	20.771	360.317	391.976	0.190	3.797	20.771	7.909
2022-07-19 20:30	2269803	8.263	-124.872	20.720	359.561	391.570	0.189	4.237	20.720	7.867
2022-07-19 20:45	2270703	8.261	-124.769	20.656	358.522	390.957	0.189	4.467	20.656	7.834
2022-07-19 21:00	2271603	8.258	-124.574	20.585	358.439	391.450	0.189	9.490	20.585	7.814
2022-07-19 21:15	2272503	8.253	-124.266	20.518	357.035	390.464	0.189	12.529	20.518	7.798
2022-07-19 21:30	2273403	8.253	-124.204	20.462	356.826	390.689	0.189	4.578	20.462	7.762
2022-07-19 21:45	2274303	8.255	-124.288	20.407	356.571	390.859	0.189	4.269	20.407	7.727
2022-07-19 22:00	2275203	8.252	-124.128	20.342	357.493	392.407	0.190	7.578	20.342	7.684
2022-07-19 22:15	2276103	8.240	-123.396	20.262	357.736	393.330	0.190	4.178	20.262	7.678
2022-07-19 22:30	2277003	8.242	-123.501	20.198	356.729	392.750	0.190	4.653	20.198	7.654
2022-07-19 22:45	2277903	8.238	-123.217	20.134	359.075	395.866	0.192	4.482	20.134	7.617
2022-07-19 23:00	2278803	8.242	-123.429	20.075	359.924	397.296	0.192	7.046	20.075	7.609
2022-07-19 23:15	2279703	8.231	-122.771	20.035	356.157	393.471	0.190	5.504	20.035	7.538
2022-07-19 23:30	2280603	8.228	-122.571	19.972	360.196	398.462	0.193	4.775	19.972	7.530
2022-07-19 23:45	2281503	8.231	-122.747	19.924	358.958	397.495	0.192	5.782	19.924	7.504
2022-07-20 0:00	2282403	8.236	-123.017	19.874	361.865	401.141	0.194	12.012	19.874	7.509
2022-07-20 0:15	2283303	8.229	-122.600	19.840	357.484	396.564	0.192	4.563	19.840	7.489
2022-07-20 0:30	2284203	8.228	-122.540	19.793	361.082	400.958	0.194	4.269	19.793	7.468
2022-07-20 0:45	2285103	8.219	-121.994	19.752	362.579	402.973	0.195	4.437	19.752	7.440
2022-07-20 1:00	2286003	8.228	-122.490	19.699	364.276	405.315	0.196	6.277	19.699	7.434
2022-07-20 1:15	2286903	8.217	-121.822	19.635	365.155	406.847	0.197	4.526	19.635	7.419
2022-07-20 1:30	2287803	8.212	-121.517	19.561	373.275	416.545	0.202	5.811	19.561	7.395
2022-07-20 1:45	2288703	8.206	-121.186	19.548	365.593	408.092	0.198	5.351	19.548	7.350
2022-07-20 2:00	2289603	8.218	-121.861	19.520	361.638	403.919	0.196	11.876	19.520	7.332
2022-07-20 2:15	2290503	8.201	-120.847	19.485	363.689	406.507	0.197	5.462	19.485	7.300
2022-07-20 2:30	2291403	8.149	-117.910	19.457	395.552	442.388	0.215	5.315	19.457	7.274
2022-07-20 2:45	2292303	8.192	-120.361	19.416	359.501	402.422	0.195	5.745	19.416	7.193
2022-07-20 3:00	2293203	8.198	-120.664	19.360	364.771	408.806	0.198	117.994	19.360	7.193
2022-07-20 3:15	2294103	8.184	-119.820	19.324	365.240	409.648	0.198	68.977	19.324	7.181
2022-07-20 3:30	2295003	8.182	-119.724	19.264	367.880	413.146	0.200	6.182	19.264	7.194
2022-07-20 3:45	2295903	8.180	-119.541	19.199	371.611	417.918	0.202	5.413	19.199	7.163

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-20 4:00	2296803	8.194	-120.368	19.179	363.906	409.426	0.198	14.459	19.179	7.151
2022-07-20 4:15	2297703	8.184	-119.753	19.138	365.877	412.004	0.200	4.800	19.138	7.147
2022-07-20 4:30	2298603	8.186	-119.858	19.105	367.285	413.890	0.200	7.901	19.105	7.135
2022-07-20 4:45	2299503	8.180	-119.495	19.063	362.471	408.828	0.198	5.581	19.063	7.104
2022-07-20 5:00	2300403	8.187	-119.865	19.006	362.157	408.980	0.198	10.897	19.006	7.101
2022-07-20 5:15	2301303	8.174	-119.109	18.907	379.626	429.626	0.208	4.630	18.907	7.060
2022-07-20 5:30	2302203	8.174	-119.114	18.880	369.627	418.554	0.203	5.976	18.880	7.068
2022-07-20 5:45	2303103	8.171	-118.911	18.831	373.927	423.873	0.205	5.668	18.831	7.065
2022-07-20 6:00	2304003	8.184	-119.624	18.748	384.797	436.976	0.212	10.772	18.748	7.050
2022-07-20 6:15	2304903	8.177	-119.212	18.755	376.428	427.410	0.207	7.179	18.755	7.056
2022-07-20 6:30	2305803	8.174	-119.026	18.723	375.857	427.054	0.207	4.342	18.723	7.050
2022-07-20 6:45	2306703	8.177	-119.209	18.704	368.242	418.573	0.203	7.874	18.704	7.067
2022-07-20 7:00	2307603	8.187	-119.758	18.661	368.897	419.712	0.203	9.479	18.661	7.066
2022-07-20 7:15	2308503	8.178	-119.190	18.613	379.250	431.942	0.209	4.886	18.613	7.072
2022-07-20 7:30	2309403	8.176	-119.109	18.586	370.532	422.265	0.205	6.044	18.586	7.064
2022-07-20 7:45	2310303	8.178	-119.181	18.576	368.526	420.068	0.204	4.301	18.576	7.073
2022-07-20 8:00	2311203	8.193	-120.051	18.527	375.587	428.577	0.208	7.510	18.527	7.078
2022-07-20 8:15	2312103	8.185	-119.600	18.541	368.974	420.901	0.204	5.304	18.541	7.094
2022-07-20 8:30	2313003	8.185	-119.572	18.542	368.603	420.462	0.204	4.855	18.542	7.121
2022-07-20 8:45	2313903	8.190	-119.867	18.560	370.630	422.616	0.205	6.168	18.560	7.134
2022-07-20 9:00	2314803	8.198	-120.306	18.566	373.634	425.983	0.206	7.910	18.566	7.154
2022-07-20 9:15	2315703	8.192	-119.996	18.585	375.858	428.341	0.208	4.827	18.585	7.171
2022-07-20 9:30	2316603	8.189	-119.848	18.621	369.457	420.712	0.204	5.881	18.621	7.168
2022-07-20 9:45	2317503	8.193	-120.029	18.594	375.909	428.313	0.208	4.399	18.594	7.171
2022-07-20 10:00	2318403	8.201	-120.447	18.516	419.113	478.358	0.233	9.221	18.516	7.189
2022-07-20 10:15	2319303	8.194	-120.113	18.615	410.716	467.764	0.227	6.417	18.615	7.233
2022-07-20 10:30	2320203	8.194	-120.127	18.683	415.069	472.017	0.229	5.574	18.683	7.285
2022-07-20 10:45	2321103	8.201	-120.575	18.709	439.578	499.607	0.243	5.836	18.709	7.330
2022-07-20 11:00	2322003	8.208	-121.005	18.794	433.849	492.190	0.240	13.242	18.794	7.388
2022-07-20 11:15	2322903	8.213	-121.315	18.952	434.215	490.930	0.239	4.128	18.952	7.445
2022-07-20 11:30	2323803	8.214	-121.384	18.904	466.175	527.607	0.257	7.641	18.904	7.475
2022-07-20 11:45	2324703	8.216	-121.458	18.927	497.443	562.712	0.275	4.970	18.927	7.524
2022-07-20 12:00	2325603	8.227	-122.170	19.106	497.975	561.143	0.274	4.777	19.106	7.571
2022-07-20 12:15	2326503	8.225	-122.080	19.141	536.782	604.417	0.296	4.487	19.141	7.604
2022-07-20 12:30	2327403	8.221	-121.887	19.193	526.081	591.713	0.290	8.755	19.193	7.652
2022-07-20 12:45	2328303	8.224	-122.159	19.511	509.089	568.709	0.278	4.104	19.511	7.654
2022-07-20 13:00	2329203	8.228	-122.404	19.458	551.121	616.359	0.302	5.005	19.458	7.628
2022-07-20 13:15	2330103	8.226	-122.349	19.709	514.035	571.818	0.280	4.911	19.709	7.735
2022-07-20 13:30	2331003	8.238	-122.867	19.319	628.005	704.442	0.347	4.804	19.319	7.811
2022-07-20 13:45	2331903	8.243	-123.110	19.242	681.546	765.758	0.378	5.414	19.242	7.972
2022-07-20 14:00	2332803	8.248	-123.494	19.464	673.227	752.837	0.372	6.016	19.464	8.007
2022-07-20 14:15	2333703	8.249	-123.401	19.009	743.797	839.901	0.416	4.718	19.009	8.081
2022-07-20 14:30	2334603	8.250	-123.837	20.014	623.750	689.405	0.339	5.158	20.014	8.005
2022-07-20 14:45	2335503	8.254	-124.147	20.122	610.516	673.243	0.331	6.755	20.122	8.027

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-20 15:00	2336403	8.257	-124.481	20.552	559.614	611.567	0.300	4.549	20.552	8.033
2022-07-20 15:15	2337303	8.251	-124.364	21.077	517.493	559.408	0.273	4.333	21.077	7.985
2022-07-20 15:30	2338203	8.263	-125.108	21.216	510.409	550.168	0.269	4.925	21.216	8.041
2022-07-20 15:45	2339103	8.270	-125.456	21.060	549.568	594.288	0.291	5.649	21.060	8.119
2022-07-20 16:00	2340003	8.267	-125.177	20.873	598.963	650.219	0.319	5.527	20.873	8.302
2022-07-20 16:15	2340903	8.269	-125.425	21.238	530.754	571.842	0.280	9.107	21.238	8.036
2022-07-20 16:30	2341803	8.268	-125.556	21.615	496.204	530.500	0.259	5.673	21.615	8.026
2022-07-20 16:45	2342703	8.259	-125.120	21.842	470.738	500.950	0.244	6.165	21.842	7.994
2022-07-20 17:00	2343603	8.263	-125.320	21.766	499.461	532.346	0.260	7.452	21.766	7.975
2022-07-20 17:15	2344503	8.257	-125.000	21.764	476.463	507.849	0.248	4.371	21.764	7.945
2022-07-20 17:30	2345403	8.246	-124.390	21.803	417.158	444.289	0.216	5.101	21.803	7.963
2022-07-20 17:45	2346303	8.262	-125.191	21.576	461.364	493.646	0.240	5.486	21.576	8.028
2022-07-20 18:00	2347203	8.266	-125.351	21.466	477.845	512.431	0.250	7.046	21.466	8.060
2022-07-20 18:15	2348103	8.266	-125.399	21.464	490.976	526.535	0.257	4.906	21.464	8.042
2022-07-20 18:30	2349003	8.274	-125.864	21.488	469.955	503.749	0.245	62.052	21.488	8.071
2022-07-20 18:45	2349903	8.266	-125.349	21.453	477.222	511.907	0.250	4.392	21.453	7.962
2022-07-20 19:00	2350803	8.259	-125.012	21.475	474.118	508.343	0.248	4.365	21.475	7.946
2022-07-20 19:15	2351703	8.259	-124.991	21.517	440.826	472.241	0.230	5.949	21.517	7.876
2022-07-20 19:30	2352603	8.259	-124.993	21.464	436.848	468.488	0.228	4.362	21.464	7.833
2022-07-20 19:45	2353503	8.249	-124.424	21.472	417.907	448.101	0.218	5.742	21.472	7.794
2022-07-20 20:00	2354403	8.245	-124.080	21.273	436.609	470.073	0.229	8.933	21.273	7.789
2022-07-20 20:15	2355303	8.244	-124.023	21.202	432.565	466.400	0.227	4.667	21.202	7.761
2022-07-20 20:30	2356203	8.247	-124.199	21.199	403.725	435.326	0.211	4.297	21.199	7.794
2022-07-20 20:45	2357103	8.241	-123.839	21.245	393.219	423.602	0.205	3.828	21.245	7.768
2022-07-20 21:00	2358003	8.236	-123.572	21.193	386.094	416.370	0.202	6.420	21.193	7.736
2022-07-20 21:15	2358903	8.232	-123.339	21.158	381.003	411.179	0.199	5.019	21.158	7.711
2022-07-20 21:30	2359803	8.229	-123.127	21.103	371.770	401.671	0.194	3.890	21.103	7.662
2022-07-20 21:45	2360703	8.225	-122.890	21.030	368.987	399.260	0.193	4.284	21.030	7.629
2022-07-20 22:00	2361603	8.224	-122.781	20.941	368.123	399.063	0.193	10.746	20.941	7.585
2022-07-20 22:15	2362503	8.211	-122.032	20.871	367.632	399.107	0.193	4.397	20.871	7.518
2022-07-20 22:30	2363403	8.210	-121.920	20.814	365.708	397.490	0.192	4.012	20.814	7.492
2022-07-20 22:45	2364303	8.214	-122.106	20.753	364.487	396.663	0.192	4.476	20.753	7.476
2022-07-20 23:00	2365203	8.216	-122.223	20.689	364.025	396.687	0.192	27.889	20.689	7.481
2022-07-20 23:15	2366103	8.211	-121.882	20.627	364.106	397.286	0.192	15.978	20.627	7.408
2022-07-20 23:30	2367003	8.205	-121.531	20.560	362.508	396.099	0.192	4.528	20.560	7.452
2022-07-20 23:45	2367903	8.210	-121.825	20.500	360.253	394.130	0.191	6.122	20.500	7.470
2022-07-21 0:00	2368803	8.216	-122.106	20.420	359.439	393.894	0.191	19.865	20.420	7.429
2022-07-21 0:15	2369703	8.206	-121.543	20.371	358.967	393.784	0.191	3.970	20.371	7.357
2022-07-21 0:30	2370603	8.204	-121.374	20.314	359.057	394.354	0.191	4.693	20.314	7.391
2022-07-21 0:45	2371503	8.198	-121.043	20.246	358.270	394.051	0.191	9.695	20.246	7.388
2022-07-21 1:00	2372403	8.212	-121.779	20.202	358.106	394.231	0.191	5.919	20.202	7.380
2022-07-21 1:15	2373303	8.201	-121.174	20.161	357.585	394.004	0.191	4.485	20.161	7.364
2022-07-21 1:30	2374203	8.198	-120.955	20.109	357.447	394.278	0.191	6.144	20.109	7.300
2022-07-21 1:45	2375103	8.201	-121.086	20.058	356.595	393.762	0.191	7.595	20.058	7.288

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-21 2:00	2376003	8.198	-120.938	19.995	356.897	394.620	0.191	8.765	19.995	7.262
2022-07-21 2:15	2376903	8.192	-120.547	19.955	356.066	394.032	0.191	5.586	19.955	7.270
2022-07-21 2:30	2377803	8.190	-120.401	19.899	355.919	394.341	0.191	7.163	19.899	7.259
2022-07-21 2:45	2378703	8.192	-120.525	19.853	355.623	394.392	0.191	7.223	19.853	7.248
2022-07-21 3:00	2379603	8.197	-120.764	19.807	355.246	394.364	0.191	7.795	19.807	7.210
2022-07-21 3:15	2380503	8.187	-120.201	19.756	355.018	394.537	0.191	4.599	19.756	7.213
2022-07-21 3:30	2381403	8.179	-119.696	19.702	355.155	395.139	0.191	3.967	19.702	7.170
2022-07-21 3:45	2382303	8.180	-119.762	19.654	354.478	394.789	0.191	4.661	19.654	7.158
2022-07-21 4:00	2383203	8.176	-119.476	19.590	354.256	395.078	0.191	59.664	19.590	7.070
2022-07-21 4:15	2384103	8.173	-119.309	19.539	353.316	394.461	0.191	6.965	19.539	7.105
2022-07-21 4:30	2385003	8.173	-119.305	19.498	353.113	394.578	0.191	4.473	19.498	7.075
2022-07-21 4:45	2385903	8.173	-119.262	19.444	352.685	394.552	0.191	4.096	19.444	7.089
2022-07-21 5:00	2386803	8.184	-119.889	19.397	352.371	394.599	0.191	13.823	19.397	7.080
2022-07-21 5:15	2387703	8.175	-119.355	19.353	352.333	394.934	0.191	14.600	19.353	7.070
2022-07-21 5:30	2388603	8.179	-119.567	19.323	351.860	394.653	0.191	12.971	19.323	7.053
2022-07-21 5:45	2389503	8.175	-119.300	19.298	351.894	394.900	0.191	12.039	19.298	7.051
2022-07-21 6:00	2390403	8.184	-119.832	19.246	351.297	394.670	0.191	22.214	19.246	7.061
2022-07-21 6:15	2391303	8.170	-118.983	19.213	351.355	395.019	0.191	3.432	19.213	7.043
2022-07-21 6:30	2392203	8.171	-119.078	19.180	350.625	394.479	0.191	4.017	19.180	7.063
2022-07-21 6:45	2393103	8.168	-118.842	19.139	350.814	395.034	0.191	4.252	19.139	7.043
2022-07-21 7:00	2394003	8.184	-119.746	19.113	350.118	394.472	0.191	5.881	19.113	7.066
2022-07-21 7:15	2394903	8.179	-119.479	19.111	350.058	394.426	0.191	3.302	19.111	7.105
2022-07-21 7:30	2395803	8.187	-119.915	19.099	350.132	394.608	0.191	10.179	19.099	7.106
2022-07-21 7:45	2396703	8.189	-120.049	19.091	350.440	395.023	0.191	9.859	19.091	7.096
2022-07-21 8:00	2397603	8.199	-120.609	19.147	350.779	394.930	0.191	32.701	19.147	7.191
2022-07-21 8:15	2398503	8.189	-120.089	19.167	350.537	394.490	0.191	3.234	19.167	7.182
2022-07-21 8:30	2399403	8.186	-119.905	19.213	351.050	394.672	0.191	6.760	19.213	7.145
2022-07-21 8:45	2400303	8.187	-120.003	19.238	351.128	394.548	0.191	21.561	19.238	7.143
2022-07-21 9:00	2401203	8.198	-120.609	19.281	351.420	394.515	0.191	9.710	19.281	7.185
2022-07-21 9:15	2402103	8.206	-121.057	19.314	350.708	393.432	0.190	13.574	19.314	7.209
2022-07-21 9:30	2403003	8.202	-120.833	19.324	351.885	394.676	0.191	11.264	19.324	7.226
2022-07-21 9:45	2403903	8.202	-120.833	19.310	354.026	397.196	0.192	7.891	19.310	7.258
2022-07-21 10:00	2404803	8.209	-121.238	19.269	366.289	411.309	0.199	11.359	19.269	7.282
2022-07-21 10:15	2405703	8.198	-120.590	19.174	405.380	456.135	0.222	7.274	19.174	7.332
2022-07-21 10:30	2406603	8.200	-120.680	19.179	414.380	466.215	0.227	4.317	19.179	7.392
2022-07-21 10:45	2407503	8.204	-120.950	19.328	414.917	465.330	0.226	3.978	19.328	7.449
2022-07-21 11:00	2408403	8.206	-121.152	19.439	430.123	481.236	0.234	8.984	19.439	7.461
2022-07-21 11:15	2409303	8.213	-121.577	19.612	392.248	437.246	0.212	7.270	19.612	7.420
2022-07-21 11:30	2410203	8.212	-121.615	19.798	394.324	437.829	0.212	4.413	19.798	7.449
2022-07-21 11:45	2411103	8.211	-121.610	19.946	397.828	440.339	0.214	4.439	19.946	7.432
2022-07-21 12:00	2412003	8.207	-121.377	19.944	435.970	482.575	0.235	13.850	19.944	7.500
2022-07-21 12:15	2412903	8.200	-120.962	19.853	511.958	567.778	0.278	4.497	19.853	7.472
2022-07-21 12:30	2413803	8.208	-121.577	20.186	448.343	493.742	0.240	4.283	20.186	7.579
2022-07-21 12:45	2414703	8.192	-120.776	20.500	421.284	460.901	0.224	6.722	20.500	7.599

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-21 13:00	2415603	8.210	-121.958	20.839	387.246	420.679	0.204	4.441	20.839	7.645
2022-07-21 13:15	2416503	8.222	-122.666	20.991	399.705	432.849	0.210	3.836	20.991	7.702
2022-07-21 13:30	2417403	8.211	-122.168	21.196	402.671	434.221	0.211	3.569	21.196	7.772
2022-07-21 13:45	2418303	8.217	-122.614	21.524	411.526	440.792	0.214	4.167	21.524	7.775
2022-07-21 14:00	2419203	8.206	-122.082	21.686	398.314	425.233	0.206	15.203	21.686	7.729
2022-07-21 14:15	2420103	8.198	-121.646	21.795	387.032	412.271	0.200	31.672	21.795	7.683
2022-07-21 14:30	2421003	8.209	-122.306	21.919	390.729	415.160	0.201	3.546	21.919	7.731
2022-07-21 14:45	2421903	8.214	-122.685	22.022	389.929	413.446	0.200	4.462	22.022	7.757
2022-07-21 15:00	2422803	8.217	-122.848	22.130	389.428	412.016	0.200	22.905	22.130	7.795
2022-07-21 15:15	2423703	8.221	-123.091	22.108	393.351	416.353	0.202	3.429	22.108	7.788
2022-07-21 15:30	2424603	8.207	-122.242	21.955	384.836	408.604	0.198	3.852	21.955	7.759
2022-07-21 15:45	2425503	8.222	-123.074	21.897	380.643	404.622	0.196	3.430	21.897	7.784
2022-07-21 16:00	2426403	8.222	-123.115	21.985	382.041	405.385	0.196	8.556	21.985	7.861
2022-07-21 16:15	2427303	8.214	-122.652	22.010	391.986	415.724	0.201	3.306	22.010	7.820
2022-07-21 16:30	2428203	8.221	-123.000	21.900	395.060	419.921	0.204	3.619	21.900	7.815
2022-07-21 16:45	2429103	8.219	-122.941	21.955	380.759	404.275	0.196	3.692	21.955	7.791
2022-07-21 17:00	2430003	8.229	-123.472	21.913	375.215	398.728	0.193	4.332	21.913	7.731
2022-07-21 17:15	2430903	8.220	-122.933	21.860	374.025	397.892	0.193	3.384	21.860	7.712
2022-07-21 17:30	2431803	8.232	-123.634	21.872	374.457	398.249	0.193	3.830	21.872	7.782
2022-07-21 17:45	2432703	8.233	-123.680	21.870	373.980	397.759	0.193	9.512	21.870	7.758
2022-07-21 18:00	2433603	8.237	-123.887	21.869	373.852	397.630	0.192	10.064	21.869	7.748
2022-07-21 18:15	2434503	8.230	-123.484	21.828	371.651	395.617	0.191	3.653	21.828	7.701
2022-07-21 18:30	2435403	8.234	-123.677	21.798	370.975	395.140	0.191	17.151	21.798	7.703
2022-07-21 18:45	2436303	8.230	-123.460	21.767	370.929	395.339	0.191	4.002	21.767	7.694
2022-07-21 19:00	2437203	8.244	-124.271	21.848	370.661	394.409	0.191	9.052	21.848	7.778
2022-07-21 19:15	2438103	8.240	-124.047	21.771	371.159	395.550	0.191	3.297	21.771	7.707
2022-07-21 19:30	2439003	8.229	-123.386	21.726	370.396	395.102	0.191	3.356	21.726	7.669
2022-07-21 19:45	2439903	8.231	-123.487	21.695	370.504	395.472	0.191	3.579	21.695	7.663
2022-07-21 20:00	2440803	8.235	-123.713	21.629	369.818	395.266	0.191	18.162	21.629	7.608
2022-07-21 20:15	2441703	8.230	-123.374	21.551	369.070	395.100	0.191	4.429	21.551	7.578
2022-07-21 20:30	2442603	8.229	-123.289	21.474	368.803	395.433	0.191	3.513	21.474	7.541
2022-07-21 20:45	2443503	8.220	-122.750	21.399	367.894	395.070	0.191	4.209	21.399	7.524
2022-07-21 21:00	2444403	8.230	-123.265	21.351	367.524	395.059	0.191	4.802	21.351	7.540
2022-07-21 21:15	2445303	8.225	-123.003	21.285	367.162	395.205	0.191	3.484	21.285	7.510
2022-07-21 21:30	2446203	8.222	-122.769	21.201	366.777	395.469	0.191	3.320	21.201	7.501
2022-07-21 21:45	2447103	8.217	-122.437	21.140	366.291	395.445	0.191	4.103	21.140	7.468
2022-07-21 22:00	2448003	8.227	-122.981	21.087	366.103	395.675	0.192	8.493	21.087	7.463
2022-07-21 22:15	2448903	8.215	-122.328	21.039	365.746	395.681	0.192	3.894	21.039	7.445
2022-07-21 22:30	2449803	8.215	-122.254	20.975	365.267	395.685	0.192	3.355	20.975	7.439
2022-07-21 22:45	2450703	8.214	-122.192	20.921	364.715	395.527	0.191	5.572	20.921	7.408
2022-07-21 23:00	2451603	8.218	-122.387	20.862	364.578	395.865	0.192	8.921	20.862	7.384
2022-07-21 23:15	2452503	8.203	-121.517	20.815	364.169	395.810	0.192	5.023	20.815	7.346
2022-07-21 23:30	2453403	8.212	-122.030	20.773	363.233	395.134	0.191	5.008	20.773	7.332
2022-07-21 23:45	2454303	8.198	-121.226	20.714	363.540	395.957	0.192	4.960	20.714	7.301

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-22 0:00	2455203	8.211	-121.925	20.653	362.967	395.832	0.192	11.105	20.653	7.289
2022-07-22 0:15	2456103	8.199	-121.210	20.604	362.284	395.492	0.191	4.172	20.604	7.273
2022-07-22 0:30	2457003	8.196	-121.052	20.545	362.178	395.859	0.192	3.898	20.545	7.243
2022-07-22 0:45	2457903	8.196	-121.014	20.504	361.869	395.859	0.192	3.822	20.504	7.236
2022-07-22 1:00	2458803	8.206	-121.529	20.447	361.824	396.288	0.192	8.218	20.447	7.232
2022-07-22 1:15	2459703	8.194	-120.876	20.401	360.933	395.688	0.191	5.775	20.401	7.219
2022-07-22 1:30	2460603	8.197	-121.012	20.339	360.504	395.733	0.192	4.363	20.339	7.201
2022-07-22 1:45	2461503	8.191	-120.659	20.282	360.270	395.954	0.192	4.601	20.282	7.160
2022-07-22 2:00	2462403	8.203	-121.272	20.223	359.553	395.651	0.191	7.961	20.223	7.164
2022-07-22 2:15	2463303	8.188	-120.389	20.155	359.610	396.280	0.192	6.138	20.155	7.129
2022-07-22 2:30	2464203	8.192	-120.630	20.116	358.650	395.551	0.191	5.404	20.116	7.139
2022-07-22 2:45	2465103	8.185	-120.213	20.050	358.589	396.029	0.192	3.637	20.050	7.111
2022-07-22 3:00	2466003	8.191	-120.535	19.985	358.024	395.947	0.192	23.736	19.985	7.061
2022-07-22 3:15	2466903	8.184	-120.094	19.908	357.876	396.429	0.192	4.115	19.908	7.046
2022-07-22 3:30	2467803	8.184	-120.087	19.849	357.253	396.234	0.192	5.356	19.849	7.039
2022-07-22 3:45	2468703	8.182	-119.934	19.779	356.599	396.101	0.192	5.137	19.779	7.013
2022-07-22 4:00	2469603	8.184	-119.998	19.728	356.244	396.135	0.192	41.570	19.728	7.011
2022-07-22 4:15	2470503	8.172	-119.324	19.655	356.003	396.481	0.192	4.013	19.655	6.977
2022-07-22 4:30	2471403	8.170	-119.197	19.603	355.402	396.251	0.192	4.878	19.603	6.976
2022-07-22 4:45	2472303	8.166	-118.942	19.537	355.133	396.504	0.192	4.147	19.537	6.949
2022-07-22 5:00	2473203	8.171	-119.169	19.480	355.021	396.866	0.192	16.224	19.480	6.933
2022-07-22 5:15	2474103	8.168	-118.980	19.422	355.468	397.853	0.193	4.396	19.422	6.909
2022-07-22 5:30	2475003	8.167	-118.890	19.357	353.989	396.751	0.192	4.795	19.357	6.905
2022-07-22 5:45	2475903	8.166	-118.852	19.311	353.428	396.509	0.192	4.980	19.311	6.885
2022-07-22 6:00	2476803	8.167	-118.861	19.245	353.597	397.265	0.192	5.871	19.245	6.876
2022-07-22 6:15	2477703	8.157	-118.244	19.184	353.175	397.312	0.192	5.349	19.184	6.870
2022-07-22 6:30	2478603	8.156	-118.215	19.145	352.885	397.315	0.192	4.353	19.145	6.882
2022-07-22 6:45	2479503	8.153	-117.996	19.092	352.453	397.288	0.192	3.711	19.092	6.702
2022-07-22 7:00	2480403	8.162	-118.504	19.063	351.945	396.959	0.192	5.659	19.063	6.869
2022-07-22 7:15	2481303	8.148	-117.707	19.033	352.327	397.648	0.192	4.544	19.033	6.857
2022-07-22 7:30	2482203	8.152	-117.924	19.011	351.642	397.062	0.192	4.484	19.011	6.850
2022-07-22 7:45	2483103	8.148	-117.655	18.975	351.898	397.663	0.192	3.580	18.975	6.701
2022-07-22 8:00	2484003	8.159	-118.303	18.969	351.546	397.315	0.192	53.740	18.969	6.821
2022-07-22 8:15	2484903	8.149	-117.745	18.990	351.399	396.967	0.192	4.179	18.990	6.873
2022-07-22 8:30	2485803	8.152	-117.896	19.001	351.455	396.934	0.192	4.233	19.001	6.870
2022-07-22 8:45	2486703	8.144	-117.469	19.006	352.162	397.692	0.192	3.910	19.006	6.844
2022-07-22 9:00	2487603	8.149	-117.745	19.022	352.055	397.434	0.192	7.944	19.022	6.839
2022-07-22 9:15	2488503	8.151	-117.853	19.026	352.013	397.357	0.192	3.738	19.026	6.863
2022-07-22 9:30	2489403	8.151	-117.855	19.036	352.456	397.769	0.192	3.857	19.036	6.873
2022-07-22 9:45	2490303	8.146	-117.588	19.084	353.644	398.695	0.193	3.904	19.084	6.869
2022-07-22 10:00	2491203	8.151	-117.908	19.177	354.277	398.608	0.193	10.471	19.177	6.900
2022-07-22 10:15	2492103	8.143	-117.512	19.302	355.551	398.970	0.193	3.865	19.302	6.926
2022-07-22 10:30	2493003	8.145	-117.707	19.430	357.063	399.574	0.193	3.855	19.430	6.968
2022-07-22 10:45	2493903	8.151	-118.060	19.507	357.235	399.107	0.193	5.048	19.507	7.027

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-22 11:00	2494803	8.156	-118.375	19.560	357.771	399.254	0.193	16.593	19.560	7.053
2022-07-22 11:15	2495703	8.153	-118.227	19.664	358.946	399.677	0.193	4.254	19.664	7.074
2022-07-22 11:30	2496603	8.156	-118.446	19.824	360.338	399.867	0.194	3.919	19.824	7.105
2022-07-22 11:45	2497503	8.162	-118.899	19.986	361.692	399.998	0.194	4.036	19.986	7.197
2022-07-22 12:00	2498403	8.162	-118.964	20.150	363.243	400.330	0.194	6.269	20.150	7.242
2022-07-22 12:15	2499303	8.152	-118.401	20.240	364.508	400.960	0.194	4.255	20.240	7.283
2022-07-22 12:30	2500203	8.163	-119.109	20.427	365.557	400.542	0.194	4.176	20.427	7.323
2022-07-22 12:45	2501103	8.155	-118.661	20.447	366.418	401.319	0.194	4.977	20.447	7.298
2022-07-22 13:00	2502003	8.161	-119.088	20.660	367.868	401.117	0.194	7.145	20.660	7.351
2022-07-22 13:15	2502903	8.169	-119.698	21.083	371.869	401.942	0.195	3.872	21.083	7.432
2022-07-22 13:30	2503803	8.174	-120.041	21.195	371.535	400.654	0.194	4.447	21.195	7.457
2022-07-22 13:45	2504703	8.182	-120.652	21.624	374.920	400.759	0.194	4.005	21.624	7.524
2022-07-22 14:00	2505603	8.175	-120.344	21.777	376.954	401.681	0.195	7.361	21.777	7.530
2022-07-22 14:15	2506503	8.180	-120.761	22.056	379.235	401.833	0.195	3.603	22.056	7.535
2022-07-22 14:30	2507403	8.174	-120.487	22.304	382.236	402.986	0.195	3.606	22.304	7.540
2022-07-22 14:45	2508303	8.173	-120.537	22.572	385.677	404.434	0.196	3.832	22.572	7.531
2022-07-22 15:00	2509203	8.168	-120.330	22.726	388.506	406.148	0.197	9.497	22.726	7.567
2022-07-22 15:15	2510103	8.188	-121.536	22.888	388.095	404.409	0.196	5.195	22.888	7.588
2022-07-22 15:30	2511003	8.189	-121.524	22.724	385.338	402.849	0.195	3.593	22.724	7.621
2022-07-22 15:45	2511903	8.195	-121.825	22.689	388.226	406.151	0.197	5.708	22.689	7.684
2022-07-22 16:00	2512803	8.168	-120.368	22.794	386.657	403.665	0.195	14.108	22.794	7.664
2022-07-22 16:15	2513703	8.184	-121.329	23.000	389.784	405.268	0.196	4.366	23.000	7.702
2022-07-22 16:30	2514603	8.170	-120.447	22.806	385.029	401.871	0.195	4.739	22.806	7.675
2022-07-22 16:45	2515503	8.171	-120.497	22.767	385.114	402.275	0.195	4.600	22.767	7.543
2022-07-22 17:00	2516403	8.159	-119.812	22.664	383.939	401.869	0.195	5.090	22.664	7.529
2022-07-22 17:15	2517303	8.184	-121.202	22.568	382.792	401.442	0.194	4.739	22.568	7.703
2022-07-22 17:30	2518203	8.183	-121.102	22.549	383.169	401.990	0.195	4.206	22.549	7.708
2022-07-22 17:45	2519103	8.188	-121.331	22.391	382.321	402.372	0.195	4.941	22.391	7.756
2022-07-22 18:00	2520003	8.177	-120.683	22.341	382.065	402.510	0.195	17.029	22.341	7.699
2022-07-22 18:15	2520903	8.193	-121.596	22.405	381.851	401.765	0.195	4.425	22.405	7.779
2022-07-22 18:30	2521803	8.182	-120.983	22.366	381.820	402.043	0.195	5.077	22.366	7.806
2022-07-22 18:45	2522703	8.176	-120.571	22.263	380.000	400.963	0.194	4.490	22.263	7.749
2022-07-22 19:00	2523603	8.178	-120.687	22.200	379.971	401.442	0.194	10.462	22.200	7.687
2022-07-22 19:15	2524503	8.187	-121.167	22.109	378.021	400.113	0.194	5.856	22.109	7.671
2022-07-22 19:30	2525403	8.179	-120.671	21.995	378.267	401.298	0.194	4.973	21.995	7.607
2022-07-22 19:45	2526303	8.178	-120.599	22.007	378.848	401.817	0.195	5.443	22.007	7.518
2022-07-22 20:00	2527203	8.176	-120.482	21.981	377.960	401.088	0.194	8.779	21.981	7.536
2022-07-22 20:15	2528103	8.175	-120.416	21.905	380.546	404.454	0.196	4.860	21.905	7.539
2022-07-22 20:30	2529003	8.179	-120.614	21.827	392.967	418.317	0.203	4.412	21.827	7.567
2022-07-22 20:45	2529903	8.172	-120.144	21.706	424.733	453.253	0.220	6.973	21.706	7.523
2022-07-22 21:00	2530803	8.169	-119.903	21.563	479.596	513.295	0.250	9.546	21.563	7.440
2022-07-22 21:15	2531703	8.170	-119.922	21.438	478.055	512.956	0.250	8.266	21.438	7.437
2022-07-22 21:30	2532603	8.175	-120.144	21.332	477.663	513.651	0.250	4.968	21.332	7.498
2022-07-22 21:45	2533503	8.187	-120.869	21.371	443.697	476.747	0.232	4.672	21.371	7.535

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-22 22:00	2534403	8.189	-120.957	21.285	450.233	484.624	0.236	8.298	21.285	7.473
2022-07-22 22:15	2535303	8.197	-121.319	21.154	484.992	523.444	0.255	4.983	21.154	7.414
2022-07-22 22:30	2536203	8.204	-121.663	21.051	519.521	561.909	0.275	5.066	21.051	7.376
2022-07-22 22:45	2537103	8.196	-121.207	20.969	531.965	576.338	0.282	7.416	20.969	7.286
2022-07-22 23:00	2538003	8.194	-120.964	20.654	712.066	776.527	0.384	7.893	20.654	7.115
2022-07-22 23:15	2538903	8.201	-121.253	20.404	815.030	893.454	0.444	18.704	20.404	7.063
2022-07-22 23:30	2539803	8.199	-121.086	20.265	830.363	912.920	0.454	10.278	20.265	6.937
2022-07-22 23:45	2540703	8.196	-120.852	20.120	855.987	943.972	0.470	9.107	20.120	6.940
2022-07-23 0:00	2541603	8.200	-120.976	19.929	852.943	944.419	0.470	16.098	19.929	6.899
2022-07-23 0:15	2542503	8.188	-120.261	19.770	888.828	987.465	0.493	11.414	19.770	6.686
2022-07-23 0:30	2543403	8.186	-120.091	19.631	893.823	995.954	0.497	7.866	19.631	6.728
2022-07-23 0:45	2544303	8.191	-120.327	19.526	898.041	1002.887	0.501	7.840	19.526	6.733
2022-07-23 1:00	2545203	8.200	-120.802	19.391	901.755	1009.944	0.504	11.681	19.391	6.670
2022-07-23 1:15	2546103	8.188	-120.084	19.295	907.212	1018.165	0.508	8.241	19.295	***6.477***
2022-07-23 1:30	2547003	8.187	-119.948	19.176	908.923	1022.694	0.511	7.568	19.176	6.632
2022-07-23 1:45	2547903	8.189	-120.022	19.077	902.555	1017.684	0.508	6.953	19.077	6.743
2022-07-23 2:00	2548803	8.196	-120.363	18.969	905.673	1023.590	0.511	11.436	18.969	6.624
2022-07-23 2:15	2549703	8.186	-119.772	18.879	906.015	1025.958	0.512	7.725	18.879	6.606
2022-07-23 2:30	2550603	8.182	-119.545	18.807	906.051	1027.609	0.513	7.439	18.807	***6.450***
2022-07-23 2:45	2551503	8.176	-119.166	18.702	908.380	1032.599	0.516	7.371	18.702	***6.427***
2022-07-23 3:00	2552403	8.192	-119.963	18.572	903.209	1029.627	0.514	9.460	18.572	***6.489***
2022-07-23 3:15	2553303	8.181	-119.309	18.476	902.842	1031.353	0.515	7.741	18.476	6.556
2022-07-23 3:30	2554203	8.175	-118.976	18.385	902.490	1033.015	0.516	7.378	18.385	***6.471***
2022-07-23 3:45	2555103	8.170	-118.663	18.299	903.058	1035.612	0.517	7.955	18.299	***6.480***
2022-07-23 4:00	2556003	8.185	-119.431	18.183	893.207	1026.911	0.513	9.912	18.183	6.513
2022-07-23 4:15	2556903	8.173	-118.744	18.135	894.122	1029.051	0.514	7.309	18.135	***6.473***
2022-07-23 4:30	2557803	8.160	-117.986	18.076	892.573	1028.603	0.514	8.201	18.076	***6.405***
2022-07-23 4:45	2558703	8.151	-117.447	18.045	889.151	1025.370	0.512	6.996	18.045	***6.235***
2022-07-23 5:00	2559603	8.164	-118.151	17.981	862.058	995.514	0.496	9.433	17.981	***6.316***
2022-07-23 5:15	2560503	8.178	-118.937	17.888	851.584	985.450	0.491	6.519	17.888	***6.424***
2022-07-23 5:30	2561403	8.153	-117.512	17.860	872.378	1010.136	0.504	8.211	17.860	***6.308***
2022-07-23 5:45	2562303	8.170	-118.389	17.754	837.015	971.462	0.484	7.441	17.754	***6.316***
2022-07-23 6:00	2563203	8.172	-118.482	17.698	842.319	978.833	0.488	9.305	17.698	***6.346***
2022-07-23 6:15	2564103	8.160	-117.831	17.662	830.876	966.304	0.481	10.608	17.662	***6.281***
2022-07-23 6:30	2565003	8.162	-117.924	17.601	838.574	976.583	0.486	7.634	17.601	***6.450***
2022-07-23 6:45	2565903	8.164	-118.048	17.653	820.806	954.784	0.475	7.057	17.653	6.629
2022-07-23 7:00	2566803	8.166	-118.113	17.622	770.063	896.383	0.445	6.888	17.622	6.605
2022-07-23 7:15	2567703	8.154	-117.438	17.551	793.969	925.669	0.460	5.909	17.551	6.526
2022-07-23 7:30	2568603	8.155	-117.457	17.460	773.336	903.447	0.449	5.942	17.460	6.586
2022-07-23 7:45	2569503	8.157	-117.602	17.481	774.909	904.850	0.449	6.386	17.481	6.586
2022-07-23 8:00	2570403	8.171	-118.372	17.500	738.831	862.365	0.427	5.731	17.500	6.648
2022-07-23 8:15	2571303	8.164	-117.929	17.381	764.129	894.262	0.444	6.194	17.381	6.685
2022-07-23 8:30	2572203	8.156	-117.466	17.300	757.944	888.638	0.441	9.375	17.300	6.666
2022-07-23 8:45	2573103	8.168	-118.160	17.391	754.282	882.544	0.438	8.721	17.391	6.704

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-23 9:00	2574003	8.166	-118.096	17.448	714.527	834.971	0.413	9.833	17.448	6.825
2022-07-23 9:15	2574903	8.167	-118.084	17.395	735.848	860.894	0.427	7.347	17.395	6.794
2022-07-23 9:30	2575803	8.168	-118.151	17.382	733.816	858.772	0.426	5.936	17.382	6.811
2022-07-23 9:45	2576703	8.165	-117.979	17.409	730.056	853.851	0.423	5.846	17.409	6.803
2022-07-23 10:00	2577603	8.178	-118.766	17.486	716.827	836.949	0.414	7.382	17.486	6.878
2022-07-23 10:15	2578503	8.168	-118.215	17.507	722.193	842.822	0.417	5.447	17.507	6.884
2022-07-23 10:30	2579403	8.149	-117.178	17.576	729.560	850.099	0.421	6.746	17.576	6.901
2022-07-23 10:45	2580303	8.161	-117.946	17.839	716.894	830.488	0.411	7.291	17.839	6.963
2022-07-23 11:00	2581203	8.179	-118.911	17.670	742.668	863.578	0.428	6.204	17.670	6.973
2022-07-23 11:15	2582103	8.174	-118.606	17.715	745.527	866.032	0.429	5.872	17.715	7.013
2022-07-23 11:30	2583003	8.168	-118.294	17.794	751.009	870.862	0.432	5.195	17.794	7.070
2022-07-23 11:45	2583903	8.173	-118.587	17.812	768.053	890.276	0.442	5.174	17.812	7.135
2022-07-23 12:00	2584803	8.185	-119.317	17.829	780.540	904.408	0.449	6.499	17.829	7.195
2022-07-23 12:15	2585703	8.181	-119.100	17.869	791.868	916.737	0.456	5.115	17.869	7.202
2022-07-23 12:30	2586603	8.186	-119.390	17.981	792.992	915.757	0.455	4.453	17.981	7.306
2022-07-23 12:45	2587503	8.186	-119.612	18.510	760.418	868.025	0.431	6.648	18.510	7.425
2022-07-23 13:00	2588403	8.205	-120.561	18.198	813.766	935.275	0.465	6.210	18.198	7.480
2022-07-23 13:15	2589303	8.202	-120.430	18.280	818.680	939.227	0.467	5.933	18.280	7.431
2022-07-23 13:30	2590203	8.197	-120.137	18.306	829.600	951.225	0.473	5.055	18.306	7.365
2022-07-23 13:45	2591103	8.207	-120.761	18.414	832.947	952.798	0.474	5.766	18.414	7.481
2022-07-23 14:00	2592003	8.210	-121.007	18.593	846.549	964.590	0.480	7.628	18.593	7.434
2022-07-23 14:15	2592903	8.214	-121.274	18.716	849.225	965.053	0.481	5.142	18.716	7.583
2022-07-23 14:30	2593803	8.224	-121.882	18.799	886.296	1005.371	0.502	5.117	18.799	7.806
2022-07-23 14:45	2594703	8.222	-121.861	18.979	888.811	1004.301	0.501	5.238	18.979	7.784
2022-07-23 15:00	2595603	8.240	-122.898	19.026	915.686	1033.618	0.516	7.837	19.026	7.961
2022-07-23 15:15	2596503	8.242	-123.038	19.203	920.524	1035.127	0.517	5.244	19.203	8.004
2022-07-23 15:30	2597403	8.253	-123.703	19.271	945.315	1061.476	0.531	5.494	19.271	8.084
2022-07-23 15:45	2598303	8.261	-124.214	19.453	954.779	1067.914	0.534	4.909	19.453	8.149
2022-07-23 16:00	2599203	8.270	-124.838	19.689	964.210	1073.071	0.537	6.521	19.689	8.296
2022-07-23 16:15	2600103	8.258	-124.247	19.809	961.242	1067.046	0.534	5.699	19.809	8.159
2022-07-23 16:30	2601003	8.281	-125.575	19.969	978.115	1082.100	0.542	5.034	19.969	8.215
2022-07-23 16:45	2601903	8.282	-125.635	19.992	982.187	1086.078	0.544	4.649	19.992	8.248
2022-07-23 17:00	2602803	8.276	-125.356	20.020	985.610	1089.220	0.546	5.780	20.020	8.334
2022-07-23 17:15	2603703	8.285	-125.892	20.163	992.192	1093.192	0.548	5.555	20.163	8.527
2022-07-23 17:30	2604603	8.292	-126.393	20.419	965.954	1058.571	0.530	4.493	20.419	8.680
2022-07-23 17:45	2605503	8.265	-125.005	20.777	917.378	997.864	0.498	4.610	20.777	8.488
2022-07-23 18:00	2606403	8.281	-125.916	20.691	940.877	1025.260	0.512	15.722	20.691	8.315
2022-07-23 18:15	2607303	8.290	-126.343	20.486	959.839	1050.391	0.525	4.633	20.486	8.342
2022-07-23 18:30	2608203	8.310	-127.399	20.329	1000.972	1099.017	0.551	4.509	20.329	8.568
2022-07-23 18:45	2609103	8.315	-127.590	20.111	1003.821	1107.204	0.555	5.203	20.111	8.577
2022-07-23 19:00	2610003	8.302	-126.884	20.266	986.648	1084.738	0.543	5.341	20.266	8.564
2022-07-23 19:15	2610903	8.301	-126.877	20.286	965.371	1060.900	0.531	5.249	20.286	8.554
2022-07-23 19:30	2611803	8.300	-126.855	20.380	963.944	1057.231	0.529	5.316	20.380	8.321
2022-07-23 19:45	2612703	8.268	-125.194	20.729	894.234	973.668	0.486	5.476	20.729	8.066

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-23 20:00	2613603	8.243	-124.118	21.605	669.680	716.124	0.353	9.145	21.605	7.888
2022-07-23 20:15	2614503	8.244	-124.290	21.859	526.565	560.168	0.274	4.893	21.859	7.898
2022-07-23 20:30	2615403	8.247	-124.393	21.672	579.619	618.969	0.304	4.409	21.672	7.860
2022-07-23 20:45	2616303	8.242	-124.011	21.411	623.645	669.545	0.329	4.965	21.411	7.882
2022-07-23 21:00	2617203	8.207	-122.085	21.546	498.587	533.803	0.261	8.168	21.546	7.778
2022-07-23 21:15	2618103	8.207	-122.104	21.615	433.345	463.299	0.225	4.084	21.615	7.759
2022-07-23 21:30	2619003	8.196	-121.462	21.607	403.205	431.147	0.209	3.963	21.607	7.733
2022-07-23 21:45	2619903	8.187	-120.895	21.529	401.835	430.369	0.209	4.154	21.529	7.696
2022-07-23 22:00	2620803	8.186	-120.785	21.388	411.963	442.492	0.215	8.405	21.388	7.587
2022-07-23 22:15	2621703	8.180	-120.411	21.317	403.171	433.677	0.210	6.200	21.317	7.539
2022-07-23 22:30	2622603	8.168	-119.727	21.256	393.197	423.479	0.205	4.557	21.256	7.466
2022-07-23 22:45	2623503	8.170	-119.841	21.197	385.955	416.189	0.202	6.375	21.197	7.511
2022-07-23 23:00	2624403	8.174	-120.039	21.126	385.623	416.433	0.202	5.498	21.126	7.534
2022-07-23 23:15	2625303	8.181	-120.406	21.057	385.409	416.800	0.202	7.325	21.057	7.516
2022-07-23 23:30	2626203	8.179	-120.246	20.980	394.340	427.138	0.207	4.845	20.980	7.494
2022-07-23 23:45	2627103	8.180	-120.258	20.893	402.797	437.082	0.212	5.226	20.893	7.442
2022-07-24 0:00	2628003	8.182	-120.375	20.831	402.326	437.132	0.212	11.223	20.831	7.413
2022-07-24 0:15	2628903	8.179	-120.156	20.823	394.469	428.673	0.208	4.865	20.823	7.431
2022-07-24 0:30	2629803	8.180	-120.215	20.807	389.815	423.752	0.205	4.749	20.807	7.415
2022-07-24 0:45	2630703	8.175	-119.913	20.796	385.600	419.264	0.203	7.752	20.796	7.406
2022-07-24 1:00	2631603	8.179	-120.153	20.773	384.529	418.305	0.203	6.756	20.773	7.375
2022-07-24 1:15	2632503	8.180	-120.201	20.754	380.281	413.840	0.201	6.602	20.754	7.374
2022-07-24 1:30	2633403	8.175	-119.889	20.726	379.376	413.100	0.200	5.394	20.726	7.360
2022-07-24 1:45	2634303	8.174	-119.822	20.700	377.308	411.073	0.199	4.821	20.700	7.352
2022-07-24 2:00	2635203	8.180	-120.156	20.668	375.413	409.277	0.198	5.702	20.668	7.349
2022-07-24 2:15	2636103	8.174	-119.798	20.620	374.801	409.018	0.198	6.342	20.620	7.380
2022-07-24 2:30	2637003	8.166	-119.336	20.566	374.919	409.609	0.198	4.818	20.566	7.340
2022-07-24 2:45	2637903	8.164	-119.233	20.524	374.055	409.020	0.198	6.247	20.524	7.325
2022-07-24 3:00	2638803	8.172	-119.643	20.483	373.635	408.918	0.198	9.571	20.483	7.315
2022-07-24 3:15	2639703	8.173	-119.665	20.458	371.904	407.237	0.197	5.278	20.458	7.287
2022-07-24 3:30	2640603	8.171	-119.543	20.418	372.426	408.142	0.198	5.488	20.418	7.258
2022-07-24 3:45	2641503	8.170	-119.500	20.388	372.613	408.608	0.198	5.362	20.388	7.240
2022-07-24 4:00	2642403	8.165	-119.205	20.358	370.850	406.926	0.197	10.062	20.358	7.229
2022-07-24 4:15	2643303	8.158	-118.754	20.312	371.039	407.527	0.197	5.362	20.312	7.211
2022-07-24 4:30	2644203	8.156	-118.666	20.290	370.892	407.556	0.197	4.141	20.290	7.169
2022-07-24 4:45	2645103	8.154	-118.527	20.253	369.882	406.762	0.197	4.649	20.253	7.154
2022-07-24 5:00	2646003	8.156	-118.654	20.225	370.028	407.166	0.197	8.560	20.225	7.128
2022-07-24 5:15	2646903	8.152	-118.420	20.201	370.980	408.419	0.198	5.260	20.201	7.127
2022-07-24 5:30	2647803	8.149	-118.227	20.179	369.127	406.566	0.197	5.063	20.179	7.103
2022-07-24 5:45	2648703	8.146	-118.060	20.147	371.384	409.326	0.198	4.453	20.147	7.087
2022-07-24 6:00	2649603	8.149	-118.175	20.117	369.875	407.920	0.198	20.845	20.117	7.044
2022-07-24 6:15	2650503	8.140	-117.681	20.095	370.653	408.965	0.198	4.168	20.095	7.018
2022-07-24 6:30	2651403	8.135	-117.395	20.065	371.490	410.151	0.199	4.758	20.065	6.998
2022-07-24 6:45	2652303	8.140	-117.679	20.050	370.611	409.307	0.198	4.447	20.050	6.977

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-24 7:00	2653203	8.144	-117.884	20.034	370.334	409.144	0.198	31.851	20.034	6.999
2022-07-24 7:15	2654103	8.142	-117.733	20.020	369.615	408.466	0.198	4.350	20.020	6.997
2022-07-24 7:30	2655003	8.147	-118.041	20.025	369.961	408.807	0.198	4.443	20.025	7.008
2022-07-24 7:45	2655903	8.145	-117.934	20.030	369.491	408.248	0.198	4.442	20.030	7.004
2022-07-24 8:00	2656803	8.154	-118.423	20.028	370.360	409.218	0.198	7.211	20.028	7.023
2022-07-24 8:15	2657703	8.152	-118.332	20.011	371.249	410.350	0.199	4.631	20.011	7.049
2022-07-24 8:30	2658603	8.153	-118.344	19.991	373.296	412.787	0.200	5.268	19.991	7.090
2022-07-24 8:45	2659503	8.153	-118.370	19.999	372.357	411.678	0.199	5.299	19.999	7.089
2022-07-24 9:00	2660403	8.160	-118.790	20.020	371.673	410.744	0.199	6.031	20.020	7.133
2022-07-24 9:15	2661303	8.165	-119.045	20.028	375.051	414.408	0.201	4.698	20.028	7.149
2022-07-24 9:30	2662203	8.167	-119.140	20.008	379.372	419.358	0.203	3.832	20.008	7.185
2022-07-24 9:45	2663103	8.175	-119.631	19.991	390.083	431.349	0.209	4.345	19.991	7.236
2022-07-24 10:00	2664003	8.176	-119.684	19.965	409.490	453.062	0.220	6.938	19.965	7.240
2022-07-24 10:15	2664903	8.193	-120.614	19.942	426.907	472.555	0.230	4.252	19.942	7.281
2022-07-24 10:30	2665803	8.193	-120.630	19.943	443.876	491.330	0.239	4.715	19.943	7.305
2022-07-24 10:45	2666703	8.194	-120.671	19.947	452.027	500.316	0.244	5.597	19.947	7.269
2022-07-24 11:00	2667603	8.189	-120.380	19.955	471.888	522.212	0.255	10.536	19.955	7.296
2022-07-24 11:15	2668503	8.197	-120.876	19.986	474.769	525.053	0.256	5.617	19.986	7.307
2022-07-24 11:30	2669403	8.192	-120.516	19.801	610.677	678.004	0.333	5.095	19.801	7.322
2022-07-24 11:45	2670303	8.184	-119.977	19.603	720.623	803.444	0.398	16.155	19.603	7.259
2022-07-24 12:00	2671203	8.192	-120.554	19.889	571.798	633.658	0.311	6.395	19.889	7.405
2022-07-24 12:15	2672103	8.195	-120.647	19.736	682.311	758.585	0.375	5.282	19.736	7.481
2022-07-24 12:30	2673003	8.199	-120.983	19.967	643.192	711.601	0.351	8.150	19.967	7.480
2022-07-24 12:45	2673903	8.188	-120.318	19.890	706.892	783.344	0.387	6.208	19.890	7.499
2022-07-24 13:00	2674803	8.190	-120.449	20.020	582.428	643.652	0.316	7.294	20.020	7.548
2022-07-24 13:15	2675703	8.203	-121.191	19.946	696.428	770.839	0.381	6.133	19.946	7.609
2022-07-24 13:30	2676603	8.206	-121.486	20.289	697.601	766.574	0.379	11.202	20.289	7.641
2022-07-24 13:45	2677503	8.201	-121.148	20.224	663.896	730.541	0.360	5.807	20.224	7.634
2022-07-24 14:00	2678403	8.175	-119.903	20.670	621.165	677.172	0.333	7.495	20.670	7.519
2022-07-24 14:15	2679303	8.207	-121.810	20.949	625.846	678.333	0.334	12.728	20.949	7.635
2022-07-24 14:30	2680203	8.205	-121.748	21.003	610.363	660.809	0.325	7.173	21.003	7.611
2022-07-24 14:45	2681103	8.196	-121.145	20.807	600.732	653.029	0.321	6.027	20.807	7.747
2022-07-24 15:00	2682003	8.193	-120.993	20.927	575.673	624.232	0.306	6.752	20.927	7.806
2022-07-24 15:15	2682903	8.213	-122.206	21.099	567.190	612.851	0.301	6.685	21.099	7.762
2022-07-24 15:30	2683803	8.215	-122.385	21.209	565.326	609.450	0.299	6.359	21.209	7.902
2022-07-24 15:45	2684703	8.210	-122.011	20.946	613.544	665.043	0.327	6.599	20.946	8.065
2022-07-24 16:00	2685603	8.205	-121.889	21.463	569.467	610.731	0.299	6.162	21.463	7.971
2022-07-24 16:15	2686503	8.238	-124.011	22.021	458.461	486.121	0.237	4.657	22.021	7.867
2022-07-24 16:30	2687403	8.247	-124.531	22.073	458.293	485.436	0.236	5.533	22.073	7.949
2022-07-24 16:45	2688303	8.261	-125.203	21.729	487.281	519.758	0.254	4.672	21.729	8.161
2022-07-24 17:00	2689203	8.211	-122.232	21.475	547.898	587.451	0.288	7.453	21.475	8.037
2022-07-24 17:15	2690103	8.241	-124.085	21.701	553.617	590.842	0.289	4.766	21.701	8.076
2022-07-24 17:30	2691003	8.240	-124.114	21.971	445.644	473.014	0.230	4.916	21.971	7.963
2022-07-24 17:45	2691903	8.250	-124.688	22.042	426.602	452.150	0.220	4.446	22.042	7.941

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-24 18:00	2692803	8.222	-123.129	22.079	410.660	434.921	0.211	8.120	22.079	7.867
2022-07-24 18:15	2693703	8.252	-124.798	22.036	415.034	439.942	0.214	4.614	22.036	7.791
2022-07-24 18:30	2694603	8.259	-125.213	21.999	410.176	435.118	0.211	6.681	21.999	7.934
2022-07-24 18:45	2695503	8.256	-125.015	21.952	406.028	431.130	0.209	4.142	21.952	7.876
2022-07-24 19:00	2696403	8.234	-123.696	21.808	416.129	443.150	0.215	7.306	21.808	7.923
2022-07-24 19:15	2697303	8.243	-124.238	21.817	402.631	428.696	0.208	4.402	21.817	7.880
2022-07-24 19:30	2698203	8.234	-123.696	21.788	390.190	415.690	0.201	4.301	21.788	7.838
2022-07-24 19:45	2699103	8.233	-123.627	21.717	392.652	418.917	0.203	4.408	21.717	7.790
2022-07-24 20:00	2700003	8.223	-123.003	21.645	391.753	418.579	0.203	5.529	21.645	7.742
2022-07-24 20:15	2700903	8.230	-123.415	21.601	389.186	416.205	0.202	4.119	21.601	7.724
2022-07-24 20:30	2701803	8.225	-123.076	21.543	391.284	418.949	0.203	4.103	21.543	7.689
2022-07-24 20:45	2702703	8.223	-122.931	21.471	387.484	415.492	0.201	4.210	21.471	7.595
2022-07-24 21:00	2703603	8.212	-122.285	21.412	387.206	415.696	0.201	4.726	21.412	7.581
2022-07-24 21:15	2704503	8.232	-123.396	21.372	387.787	416.663	0.202	3.978	21.372	7.571
2022-07-24 21:30	2705403	8.228	-123.162	21.334	385.812	414.864	0.201	4.544	21.334	7.536
2022-07-24 21:45	2706303	8.217	-122.533	21.297	383.870	413.086	0.200	4.694	21.297	7.482
2022-07-24 22:00	2707203	8.206	-121.908	21.254	380.715	410.049	0.199	9.870	21.254	7.448
2022-07-24 22:15	2708103	8.214	-122.318	21.227	378.024	407.382	0.197	8.575	21.227	7.414
2022-07-24 22:30	2709003	8.204	-121.727	21.176	378.823	408.676	0.198	3.904	21.176	7.367
2022-07-24 22:45	2709903	8.203	-121.679	21.137	378.594	408.750	0.198	4.691	21.137	7.364
2022-07-24 23:00	2710803	8.198	-121.353	21.091	377.689	408.163	0.198	5.757	21.091	7.373
2022-07-24 23:15	2711703	8.195	-121.140	21.029	376.496	407.392	0.197	5.109	21.029	7.332
2022-07-24 23:30	2712603	8.189	-120.802	20.966	378.324	409.908	0.199	4.408	20.966	7.282
2022-07-24 23:45	2713503	8.194	-121.038	20.910	376.660	408.579	0.198	4.709	20.910	7.298
2022-07-25 0:00	2714403	8.192	-120.902	20.865	375.986	408.226	0.198	9.756	20.865	7.308
2022-07-25 0:15	2715303	8.194	-121.038	20.822	374.707	407.203	0.197	7.523	20.822	7.270
2022-07-25 0:30	2716203	8.182	-120.337	20.759	376.619	409.817	0.199	4.685	20.759	7.220
2022-07-25 0:45	2717103	8.191	-120.840	20.723	373.712	406.957	0.197	5.967	20.723	7.231
2022-07-25 1:00	2718003	8.172	-119.708	20.676	375.529	409.333	0.198	5.683	20.676	7.187
2022-07-25 1:15	2718903	8.181	-120.223	20.643	374.559	408.559	0.198	6.216	20.643	7.152
2022-07-25 1:30	2719803	8.176	-119.910	20.599	373.565	407.846	0.198	4.957	20.599	7.124
2022-07-25 1:45	2720703	8.172	-119.684	20.559	374.379	409.077	0.198	4.834	20.559	7.076
2022-07-25 2:00	2721603	8.165	-119.243	20.520	374.373	409.402	0.198	11.523	20.520	7.059
2022-07-25 2:15	2722503	8.181	-120.134	20.491	373.064	408.218	0.198	5.257	20.491	7.094
2022-07-25 2:30	2723403	8.164	-119.190	20.434	373.846	409.563	0.198	4.485	20.434	7.047
2022-07-25 2:45	2724303	8.158	-118.797	20.397	373.749	409.777	0.198	4.983	20.397	7.021
2022-07-25 3:00	2725203	8.149	-118.291	20.369	374.322	410.648	0.199	6.909	20.369	7.029
2022-07-25 3:15	2726103	8.157	-118.725	20.342	372.954	409.375	0.198	4.236	20.342	6.986
2022-07-25 3:30	2727003	8.147	-118.144	20.305	373.004	409.747	0.198	4.859	20.305	6.963
2022-07-25 3:45	2727903	8.142	-117.855	20.272	373.139	410.180	0.199	3.812	20.272	6.952
2022-07-25 4:00	2728803	8.139	-117.657	20.249	372.974	410.200	0.199	8.214	20.249	6.930
2022-07-25 4:15	2729703	8.071	-113.811	20.238	379.008	416.929	0.202	4.294	20.238	6.918
2022-07-25 4:30	2730603	8.126	-116.904	20.193	374.269	412.102	0.200	6.574	20.193	6.839
2022-07-25 4:45	2731503	8.133	-117.309	20.173	372.566	410.403	0.199	3.990	20.173	6.910

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-25 5:00	2732403	8.129	-117.092	20.138	372.157	410.253	0.199	9.410	20.138	6.877
2022-07-25 5:15	2733303	8.136	-117.469	20.118	371.340	409.531	0.198	4.142	20.118	6.879
2022-07-25 5:30	2734203	8.125	-116.808	20.084	378.345	417.549	0.202	4.580	20.084	6.793
2022-07-25 5:45	2735103	8.095	-115.113	20.045	393.773	434.937	0.211	821.515	20.045	***5.692***
2022-07-25 6:00	2736003	8.085	-114.515	20.018	372.266	411.411	0.199	45.986	20.018	6.772
2022-07-25 6:15	2736903	8.108	-115.833	19.983	372.767	412.273	0.200	6.226	19.983	6.760
2022-07-25 6:30	2737803	8.109	-115.871	19.984	372.138	411.567	0.199	4.331	19.984	6.734
2022-07-25 6:45	2738703	8.105	-115.645	19.964	371.877	411.458	0.199	4.112	19.964	6.718
2022-07-25 7:00	2739603	8.094	-115.008	19.930	373.557	413.609	0.200	8.330	19.930	6.692
2022-07-25 7:15	2740503	8.102	-115.459	19.920	372.710	412.759	0.200	5.463	19.920	6.678
2022-07-25 7:30	2741403	8.105	-115.650	19.935	372.455	412.349	0.200	4.405	19.935	6.719
2022-07-25 7:45	2742303	8.100	-115.323	19.902	373.089	413.334	0.200	4.311	19.902	6.692
2022-07-25 8:00	2743203	8.094	-114.977	19.825	373.294	414.237	0.201	6.785	19.825	6.681
2022-07-25 8:15	2744103	8.094	-114.937	19.792	373.334	414.568	0.201	5.280	19.792	6.648
2022-07-25 8:30	2745003	8.091	-114.746	19.747	376.054	417.988	0.203	5.000	19.747	6.632
2022-07-25 8:45	2745903	8.095	-114.977	19.722	380.434	423.087	0.205	6.296	19.722	***6.402***
2022-07-25 9:00	2746803	8.097	-115.120	19.732	382.339	425.115	0.206	7.402	19.732	6.674
2022-07-25 9:15	2747703	8.105	-115.550	19.710	379.930	422.632	0.205	5.530	19.710	***6.459***
2022-07-25 9:30	2748603	8.115	-116.112	19.724	376.764	418.984	0.203	6.222	19.724	6.663
2022-07-25 9:45	2749503	8.123	-116.620	19.822	375.613	416.840	0.202	5.885	19.822	6.928
2022-07-25 10:00	2750403	8.130	-117.013	19.915	375.340	415.712	0.201	9.378	19.915	6.992
2022-07-25 10:15	2751303	8.135	-117.352	19.951	375.296	415.347	0.201	5.685	19.951	6.966
2022-07-25 10:30	2752203	8.140	-117.669	20.040	376.038	415.391	0.201	4.814	20.040	7.033
2022-07-25 10:45	2753103	8.145	-118.008	20.190	378.062	416.312	0.202	4.890	20.190	7.057
2022-07-25 11:00	2754003	8.131	-117.271	20.361	384.102	421.442	0.204	7.109	20.361	7.090
2022-07-25 11:15	2754903	8.155	-118.670	20.508	392.709	429.566	0.208	4.817	20.508	7.119
2022-07-25 11:30	2755803	8.157	-118.864	20.637	397.296	433.412	0.210	7.046	20.637	7.163
2022-07-25 11:45	2756703	8.159	-119.026	20.799	395.259	429.745	0.208	4.831	20.799	7.185
2022-07-25 12:00	2757603	8.146	-118.387	21.029	391.821	423.974	0.206	6.168	21.029	7.247
2022-07-25 12:15	2758503	8.157	-119.066	21.190	391.270	421.977	0.205	4.809	21.190	7.134
2022-07-25 12:30	2759403	8.165	-119.605	21.431	391.833	420.496	0.204	4.260	21.431	7.351
2022-07-25 12:45	2760303	8.161	-119.486	21.591	397.955	425.668	0.206	4.252	21.591	7.265
2022-07-25 13:00	2761203	8.138	-118.253	21.778	398.713	424.855	0.206	5.220	21.778	7.324
2022-07-25 13:15	2762103	8.163	-119.717	21.890	399.044	424.246	0.206	4.892	21.890	7.324
2022-07-25 13:30	2763003	8.163	-119.765	21.980	395.850	420.085	0.204	4.499	21.980	7.267
2022-07-25 13:45	2763903	8.164	-119.870	22.157	403.329	426.487	0.207	3.995	22.157	7.342
2022-07-25 14:00	2764803	8.152	-119.302	22.381	408.975	430.514	0.209	6.869	22.381	7.481
2022-07-25 14:15	2765703	8.178	-120.745	22.390	406.438	427.759	0.207	4.471	22.390	7.435
2022-07-25 14:30	2766603	8.168	-120.270	22.551	404.301	424.138	0.206	4.666	22.551	7.455
2022-07-25 14:45	2767503	8.173	-120.580	22.599	401.705	421.009	0.204	5.817	22.599	7.371
2022-07-25 15:00	2768403	8.158	-119.720	22.619	402.206	421.369	0.204	5.845	22.619	7.491
2022-07-25 15:15	2769303	8.175	-120.730	22.769	408.063	426.224	0.207	4.819	22.769	7.569
2022-07-25 15:30	2770203	8.176	-120.816	22.788	414.808	433.109	0.210	4.400	22.788	7.562
2022-07-25 15:45	2771103	8.171	-120.559	22.900	408.636	425.711	0.206	4.892	22.900	7.493

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-25 16:00	2772003	8.165	-120.296	23.076	410.461	426.124	0.207	9.409	23.076	7.548
2022-07-25 16:15	2772903	8.172	-120.723	23.102	405.797	421.061	0.204	4.104	23.102	7.484
2022-07-25 16:30	2773803	8.176	-120.924	23.100	404.645	419.886	0.204	4.653	23.100	7.456
2022-07-25 16:45	2774703	8.178	-121.071	23.151	403.991	418.780	0.203	4.284	23.151	7.475
2022-07-25 17:00	2775603	8.165	-120.358	23.179	405.683	420.304	0.204	8.171	23.179	7.601
2022-07-25 17:15	2776503	8.191	-121.861	23.261	405.816	419.760	0.204	6.331	23.261	7.568
2022-07-25 17:30	2777403	8.191	-121.891	23.354	404.644	417.779	0.203	6.519	23.354	7.530
2022-07-25 17:45	2778303	8.195	-122.187	23.436	404.845	417.312	0.202	4.288	23.436	7.584
2022-07-25 18:00	2779203	8.171	-120.778	23.423	406.023	418.633	0.203	5.712	23.423	7.511
2022-07-25 18:15	2780103	8.198	-122.330	23.476	405.204	417.355	0.202	4.392	23.476	7.599
2022-07-25 18:30	2781003	8.194	-122.094	23.463	405.191	417.447	0.202	4.745	23.463	7.514
2022-07-25 18:45	2781903	8.207	-122.879	23.527	404.345	416.047	0.202	4.753	23.527	7.532
2022-07-25 19:00	2782803	8.198	-122.368	23.565	402.658	414.002	0.201	5.837	23.565	7.633
2022-07-25 19:15	2783703	8.210	-123.086	23.536	404.310	415.941	0.202	3.682	23.536	7.570
2022-07-25 19:30	2784603	8.218	-123.518	23.488	402.491	414.461	0.201	3.953	23.488	7.546
2022-07-25 19:45	2785503	8.216	-123.360	23.412	400.844	413.385	0.200	4.222	23.412	7.518
2022-07-25 20:00	2786403	8.211	-123.045	23.367	399.178	412.026	0.200	10.622	23.367	7.525
2022-07-25 20:15	2787303	8.218	-123.384	23.283	400.067	413.633	0.200	4.558	23.283	7.492
2022-07-25 20:30	2788203	8.208	-122.783	23.187	400.086	414.439	0.201	4.234	23.187	7.439
2022-07-25 20:45	2789103	8.208	-122.793	23.104	399.129	414.125	0.201	3.990	23.104	7.431
2022-07-25 21:00	2790003	8.193	-121.858	22.992	398.094	413.968	0.201	8.192	22.992	7.412
2022-07-25 21:15	2790903	8.216	-123.165	22.915	395.965	412.388	0.200	4.151	22.915	7.314
2022-07-25 21:30	2791803	8.194	-121.818	22.781	397.045	414.614	0.201	4.670	22.781	7.314
2022-07-25 21:45	2792703	8.187	-121.384	22.661	395.829	414.338	0.201	3.716	22.661	7.284
2022-07-25 22:00	2793603	8.171	-120.411	22.528	395.134	414.711	0.201	5.596	22.528	7.231
2022-07-25 22:15	2794503	8.193	-121.615	22.407	393.794	414.316	0.201	3.507	22.407	7.207
2022-07-25 22:30	2795403	8.194	-121.644	22.293	393.561	415.021	0.201	4.926	22.293	7.184
2022-07-25 22:45	2796303	8.163	-119.808	22.175	392.678	415.078	0.201	3.946	22.175	7.108
2022-07-25 23:00	2797203	8.144	-118.704	22.043	390.800	414.190	0.201	4.932	22.043	7.097
2022-07-25 23:15	2798103	8.179	-120.635	21.947	389.720	413.853	0.201	4.397	21.947	7.128
2022-07-25 23:30	2799003	8.182	-120.788	21.851	388.661	413.536	0.200	4.449	21.851	7.129
2022-07-25 23:45	2799903	8.171	-120.111	21.764	389.078	414.711	0.201	4.677	21.764	7.052
2022-07-26 0:00	2800803	8.163	-119.581	21.647	387.248	413.745	0.201	8.684	21.647	7.066
2022-07-26 0:15	2801703	8.146	-118.597	21.557	386.793	414.020	0.201	5.069	21.557	7.082
2022-07-26 0:30	2802603	8.171	-120.029	21.512	386.381	413.958	0.201	6.922	21.512	6.973
2022-07-26 0:45	2803503	8.181	-120.544	21.481	385.236	412.992	0.200	5.657	21.481	7.242
2022-07-26 1:00	2804403	8.165	-119.638	21.403	385.493	413.934	0.201	6.233	21.403	7.106
2022-07-26 1:15	2805303	8.166	-119.648	21.369	386.276	415.065	0.201	5.914	21.369	7.119
2022-07-26 1:30	2806203	8.159	-119.214	21.315	386.889	416.185	0.202	5.813	21.315	7.056
2022-07-26 1:45	2807103	8.154	-118.957	21.255	386.617	416.398	0.202	5.298	21.255	7.079
2022-07-26 2:00	2808003	8.153	-118.849	21.202	385.487	415.636	0.201	42.518	21.202	7.020
2022-07-26 2:15	2808903	8.160	-119.212	21.139	385.034	415.689	0.201	4.797	21.139	7.008
2022-07-26 2:30	2809803	8.166	-119.565	21.105	384.396	415.291	0.201	4.900	21.105	7.009
2022-07-26 2:45	2810703	8.152	-118.732	20.991	383.255	415.032	0.201	4.577	20.991	6.757

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-26 3:00	2811603	8.132	-117.590	20.948	381.395	413.385	0.200	5.380	20.948	6.757
2022-07-26 3:15	2812503	8.153	-118.744	20.924	381.224	413.413	0.200	4.782	20.924	6.713
2022-07-26 3:30	2813403	8.141	-118.046	20.890	382.116	414.667	0.201	5.503	20.890	6.661
2022-07-26 3:45	2814303	8.148	-118.463	20.887	383.989	416.726	0.202	6.004	20.887	6.927
2022-07-26 4:00	2815203	8.136	-117.717	20.828	384.117	417.380	0.202	7.002	20.828	6.847
2022-07-26 4:15	2816103	8.141	-118.024	20.778	383.504	417.144	0.202	5.955	20.778	6.813
2022-07-26 4:30	2817003	8.132	-117.500	20.717	382.710	416.804	0.202	5.241	20.717	6.789
2022-07-26 4:45	2817903	8.141	-117.946	20.680	382.024	416.376	0.202	6.081	20.680	6.797
2022-07-26 5:00	2818803	8.127	-117.176	20.671	381.955	416.379	0.202	6.706	20.671	6.815
2022-07-26 5:15	2819703	8.127	-117.130	20.604	382.714	417.791	0.202	4.466	20.604	6.760
2022-07-26 5:30	2820603	8.141	-117.965	20.607	380.922	415.814	0.202	4.917	20.607	6.799
2022-07-26 5:45	2821503	8.131	-117.326	20.565	381.858	417.199	0.202	11.208	20.565	6.751
2022-07-26 6:00	2822403	8.123	-116.906	20.537	381.157	416.672	0.202	4.819	20.537	6.735
2022-07-26 6:15	2823303	8.126	-117.052	20.515	380.508	416.161	0.202	6.192	20.515	6.736
2022-07-26 6:30	2824203	8.127	-117.083	20.489	380.186	416.027	0.202	4.905	20.489	6.714
2022-07-26 6:45	2825103	8.122	-116.777	20.449	380.211	416.405	0.202	4.550	20.449	6.698
2022-07-26 7:00	2826003	8.118	-116.539	20.403	378.795	415.252	0.201	6.315	20.403	6.653
2022-07-26 7:15	2826903	8.117	-116.463	20.341	379.495	416.565	0.202	4.119	20.341	6.640
2022-07-26 7:30	2827803	8.112	-116.162	20.289	380.098	417.685	0.202	9.765	20.289	6.644
2022-07-26 7:45	2828703	8.111	-116.107	20.268	379.286	416.969	0.202	4.278	20.268	6.632
2022-07-26 8:00	2829603	8.104	-115.685	20.243	379.619	417.561	0.202	9.920	20.243	6.610
2022-07-26 8:15	2830503	8.110	-116.034	20.226	377.901	415.814	0.201	4.115	20.226	6.594
2022-07-26 8:30	2831403	8.099	-115.421	20.205	379.488	417.747	0.202	4.300	20.205	6.581
2022-07-26 8:45	2832303	8.101	-115.519	20.210	379.054	417.222	0.202	4.006	20.210	6.598
2022-07-26 9:00	2833203	8.102	-115.554	20.222	378.571	416.591	0.202	5.916	20.222	6.600
2022-07-26 9:15	2834103	8.107	-115.852	20.242	378.950	416.831	0.202	4.873	20.242	6.608
2022-07-26 9:30	2835003	8.117	-116.432	20.267	377.768	415.309	0.201	4.562	20.267	6.704
2022-07-26 9:45	2835903	8.137	-117.588	20.355	377.821	414.606	0.201	4.984	20.355	6.820
2022-07-26 10:00	2836803	8.121	-116.737	20.476	379.714	415.628	0.201	7.426	20.476	6.795
2022-07-26 10:15	2837703	8.143	-118.089	20.645	378.071	412.371	0.200	5.162	20.645	6.875
2022-07-26 10:30	2838603	8.146	-118.272	20.789	379.579	412.778	0.200	4.981	20.789	6.936
2022-07-26 10:45	2839503	8.137	-117.795	20.849	383.093	416.081	0.202	4.752	20.849	6.973
2022-07-26 11:00	2840403	8.152	-118.771	21.077	380.301	411.102	0.199	7.649	21.077	7.031
2022-07-26 11:15	2841303	8.162	-119.390	21.226	382.510	412.224	0.200	5.113	21.226	7.086
2022-07-26 11:30	2842203	8.168	-119.779	21.348	385.047	413.916	0.201	4.576	21.348	7.141
2022-07-26 11:45	2843103	8.157	-119.164	21.428	387.098	415.442	0.201	4.208	21.428	7.121
2022-07-26 12:00	2844003	8.160	-119.455	21.744	385.372	410.928	0.199	5.756	21.744	7.177
2022-07-26 12:15	2844903	8.170	-120.132	22.006	387.788	411.310	0.199	4.825	22.006	7.105
2022-07-26 12:30	2845803	8.145	-118.740	21.996	392.605	416.502	0.202	4.714	21.996	7.071
2022-07-26 12:45	2846703	8.161	-119.717	22.207	393.055	415.204	0.201	5.053	22.207	7.245
2022-07-26 13:00	2847603	8.135	-118.408	22.611	400.267	419.408	0.203	5.183	22.611	7.162
2022-07-26 13:15	2848503	8.155	-119.631	22.821	403.821	421.359	0.204	4.496	22.821	7.184
2022-07-26 13:30	2849403	8.154	-119.648	23.005	408.844	425.040	0.206	5.168	23.005	7.209
2022-07-26 13:45	2850303	8.152	-119.526	23.071	411.275	427.010	0.207	5.029	23.071	7.259

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-26 14:00	2851203	8.121	-117.843	23.245	411.987	426.273	0.207	5.994	23.245	7.210
2022-07-26 14:15	2852103	8.150	-119.584	23.371	408.715	421.842	0.205	4.226	23.371	7.191
2022-07-26 14:30	2853003	8.150	-119.565	23.430	412.421	425.171	0.206	5.389	23.430	6.932
2022-07-26 14:45	2853903	8.165	-120.323	23.195	432.047	447.471	0.217	6.418	23.195	7.478
2022-07-26 15:00	2854803	8.138	-118.840	23.341	429.747	443.812	0.215	5.533	23.341	7.600
2022-07-26 15:15	2855703	8.169	-120.544	23.148	442.502	458.733	0.223	6.577	23.148	7.583
2022-07-26 15:30	2856603	8.169	-120.673	23.470	443.841	457.206	0.222	6.071	23.470	7.617
2022-07-26 15:45	2857503	8.160	-120.504	24.276	427.479	433.476	0.210	5.167	24.276	7.379
2022-07-26 16:00	2858403	8.143	-119.505	24.174	437.561	444.576	0.216	6.296	24.174	7.608
2022-07-26 16:15	2859303	8.190	-121.930	23.508	456.053	469.433	0.228	6.360	23.508	7.962
2022-07-26 16:30	2860203	8.188	-121.784	23.460	466.527	480.668	0.234	6.913	23.460	7.988
2022-07-26 16:45	2861103	8.164	-120.559	23.882	445.347	455.069	0.221	5.052	23.882	7.641
2022-07-26 17:00	2862003	8.148	-119.808	24.270	448.132	454.471	0.221	9.373	24.270	7.643
2022-07-26 17:15	2862903	8.193	-122.147	23.624	468.901	481.555	0.234	6.036	23.624	8.033
2022-07-26 17:30	2863803	8.187	-121.703	23.454	455.179	469.028	0.228	5.548	23.454	8.148
2022-07-26 17:45	2864703	8.190	-121.844	23.307	461.656	477.080	0.232	5.608	23.307	8.378
2022-07-26 18:00	2865603	8.163	-120.482	23.810	452.662	463.194	0.225	6.463	23.810	8.121
2022-07-26 18:15	2866503	8.174	-121.350	24.328	436.128	441.796	0.214	4.359	24.328	7.699
2022-07-26 18:30	2867403	8.174	-121.465	24.612	434.025	437.261	0.212	4.786	24.612	7.559
2022-07-26 18:45	2868303	8.172	-121.300	24.562	430.575	434.206	0.211	4.805	24.562	7.449
2022-07-26 19:00	2869203	8.123	-118.625	24.825	427.869	429.306	0.208	5.084	24.825	7.385
2022-07-26 19:15	2870103	8.149	-120.137	24.877	426.114	427.117	0.207	4.094	24.877	7.209
2022-07-26 19:30	2871003	8.163	-120.885	24.864	424.567	425.669	0.206	4.314	24.864	7.218
2022-07-26 19:45	2871903	8.167	-121.088	24.757	422.374	424.343	0.206	4.979	24.757	7.246
2022-07-26 20:00	2872803	8.121	-118.396	24.563	426.553	430.141	0.209	5.978	24.563	7.064
2022-07-26 20:15	2873703	8.141	-119.507	24.519	426.232	430.183	0.209	4.534	24.519	6.987
2022-07-26 20:30	2874603	8.132	-118.980	24.484	429.040	433.313	0.210	4.347	24.484	6.892
2022-07-26 20:45	2875503	8.135	-119.109	24.409	429.027	433.924	0.211	5.134	24.409	6.832
2022-07-26 21:00	2876403	8.106	-117.369	24.216	448.391	455.208	0.221	9.982	24.216	6.855
2022-07-26 21:15	2877303	8.132	-118.856	24.146	443.113	450.457	0.219	5.211	24.146	6.889
2022-07-26 21:30	2878203	8.049	-113.592	22.898	778.637	811.213	0.402	6.292	22.898	6.514
2022-07-26 21:45	2879103	7.978	-109.415	22.455	835.161	877.827	0.436	8.733	22.455	***6.345***
2022-07-26 22:00	2880003	8.006	-110.841	22.135	870.159	920.534	0.458	12.481	22.135	***6.431***
2022-07-26 22:15	2880903	7.989	-109.885	22.125	881.236	932.438	0.464	7.196	22.125	***6.398***
2022-07-26 22:30	2881803	8.002	-110.660	22.160	889.527	940.552	0.469	7.365	22.160	***6.334***
2022-07-26 22:45	2882703	8.062	-114.071	22.248	887.977	937.236	0.467	8.371	22.248	***6.420***
2022-07-26 23:00	2883603	8.099	-116.162	22.153	920.233	973.157	0.485	9.631	22.153	***6.265***
2022-07-26 23:15	2884503	8.100	-116.210	22.076	923.668	978.302	0.488	8.521	22.076	***6.228***
2022-07-26 23:30	2885403	8.119	-117.252	21.967	930.864	988.111	0.493	9.863	21.967	***6.218***
2022-07-26 23:45	2886303	8.127	-117.645	21.820	937.774	998.421	0.499	10.392	21.820	***6.175***
2022-07-27 0:00	2887203	8.127	-117.593	21.698	944.083	1007.625	0.503	12.653	21.698	***6.177***
2022-07-27 0:15	2888103	8.109	-116.510	21.560	953.517	1020.566	0.510	13.653	21.560	***6.012***
2022-07-27 0:30	2889003	8.126	-117.433	21.414	965.744	1036.752	0.518	10.401	21.414	***5.874***
2022-07-27 0:45	2889903	8.126	-117.357	21.265	977.716	1052.825	0.527	9.219	21.265	***6.082***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-27 1:00	2890803	8.134	-117.750	21.111	984.344	1063.318	0.532	10.543	21.111	***6.075***
2022-07-27 1:15	2891703	8.129	-117.393	20.955	993.534	1076.717	0.539	10.095	20.955	***6.094***
2022-07-27 1:30	2892603	8.125	-117.097	20.815	1000.113	1087.007	0.545	9.927	20.815	***6.198***
2022-07-27 1:45	2893503	8.123	-116.982	20.739	1001.280	1089.996	0.546	10.470	20.739	***5.996***
2022-07-27 2:00	2894403	8.134	-117.540	20.605	1005.358	1097.482	0.550	30.001	20.605	***6.224***
2022-07-27 2:15	2895303	8.116	-116.472	20.527	1004.072	1097.875	0.550	8.491	20.527	***6.110***
2022-07-27 2:30	2896203	8.117	-116.503	20.399	1005.121	1101.959	0.552	8.978	20.399	***5.852***
2022-07-27 2:45	2897103	8.114	-116.262	20.284	1003.881	1103.257	0.553	8.165	20.284	***6.054***
2022-07-27 3:00	2898003	8.119	-116.529	20.162	1008.768	1111.470	0.557	10.504	20.162	***5.953***
2022-07-27 3:15	2898903	8.111	-116.034	20.040	1014.526	1120.697	0.562	11.730	20.040	***6.061***
2022-07-27 3:30	2899803	8.105	-115.604	19.931	1017.826	1126.938	0.565	8.370	19.931	***6.204***
2022-07-27 3:45	2900703	8.108	-115.740	19.830	1019.675	1131.388	0.568	9.063	19.830	***6.274***
2022-07-27 4:00	2901603	8.114	-116.057	19.741	1021.311	1135.362	0.570	9.407	19.741	***6.175***
2022-07-27 4:15	2902503	8.099	-115.156	19.593	1027.730	1146.086	0.575	7.802	19.593	***6.052***
2022-07-27 4:30	2903403	8.104	-115.416	19.468	1035.846	1158.216	0.582	7.733	19.468	***5.899***
2022-07-27 4:45	2904303	8.101	-115.187	19.368	1040.403	1165.818	0.586	8.578	19.368	***5.674***
2022-07-27 5:00	2905203	8.111	-115.731	19.252	1042.055	1170.559	0.588	9.737	19.252	***6.031***
2022-07-27 5:15	2906103	8.098	-114.911	19.164	1043.720	1174.654	0.590	8.312	19.164	***6.024***
2022-07-27 5:30	2907003	8.089	-114.398	19.109	1043.897	1176.251	0.591	9.223	19.109	***6.096***
2022-07-27 5:45	2907903	8.097	-114.815	18.977	1045.201	1181.073	0.593	7.826	18.977	***6.216***
2022-07-27 6:00	2908803	8.112	-115.631	18.875	1045.367	1183.859	0.595	12.060	18.875	***6.026***
2022-07-27 6:15	2909703	8.095	-114.617	18.783	1052.932	1194.805	0.601	8.602	18.783	***5.875***
2022-07-27 6:30	2910603	8.094	-114.541	18.754	1051.743	1194.219	0.600	8.984	18.754	***5.951***
2022-07-27 6:45	2911503	8.085	-113.986	18.666	1049.839	1194.321	0.600	11.971	18.666	***5.856***
2022-07-27 7:00	2912403	8.105	-115.106	18.589	1051.406	1198.106	0.602	9.518	18.589	***5.673***
2022-07-27 7:15	2913303	8.089	-114.198	18.544	1051.163	1199.022	0.603	10.233	18.544	***5.723***
2022-07-27 7:30	2914203	8.095	-114.512	18.502	1050.819	1199.724	0.603	8.521	18.502	***5.720***
2022-07-27 7:45	2915103	8.091	-114.264	18.470	1059.190	1210.126	0.608	8.712	18.470	***5.743***
2022-07-27 8:00	2916003	8.100	-114.748	18.441	1052.419	1203.142	0.605	19.897	18.441	***5.900***
2022-07-27 8:15	2916903	8.090	-114.167	18.417	1051.788	1203.063	0.605	8.145	18.417	***5.891***
2022-07-27 8:30	2917803	8.092	-114.279	18.370	1049.427	1201.582	0.604	8.660	18.370	***6.037***
2022-07-27 8:45	2918703	8.089	-114.088	18.349	1049.594	1202.325	0.604	8.417	18.349	***5.707***
2022-07-27 9:00	2919603	8.099	-114.677	18.354	1046.724	1198.907	0.603	10.022	18.354	***5.830***
2022-07-27 9:15	2920503	8.101	-114.820	18.383	1038.444	1188.682	0.597	10.141	18.383	***6.130***
2022-07-27 9:30	2921403	8.102	-114.856	18.401	1034.684	1183.895	0.595	7.718	18.401	***6.214***
2022-07-27 9:45	2922303	8.103	-114.913	18.439	1032.339	1180.229	0.593	7.856	18.439	***6.297***
2022-07-27 10:00	2923203	8.121	-115.969	18.500	1032.653	1179.039	0.592	14.817	18.500	***6.289***
2022-07-27 10:15	2924103	8.108	-115.221	18.528	1032.721	1178.386	0.592	7.696	18.528	***6.284***
2022-07-27 10:30	2925003	8.119	-115.864	18.570	1033.653	1178.370	0.592	7.337	18.570	***6.351***
2022-07-27 10:45	2925903	8.111	-115.476	18.623	1035.315	1178.918	0.592	6.823	18.623	***6.461***
2022-07-27 11:00	2926803	8.120	-115.993	18.667	1040.086	1183.204	0.594	7.924	18.667	***6.460***
2022-07-27 11:15	2927703	8.123	-116.196	18.731	1046.421	1188.764	0.597	7.870	18.731	***6.443***
2022-07-27 11:30	2928603	8.122	-116.167	18.826	1049.347	1189.632	0.598	7.121	18.826	6.502
2022-07-27 11:45	2929503	8.104	-115.209	18.974	1050.375	1186.995	0.597	113.834	18.974	***6.346***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-27 12:00	2930403	8.136	-117.054	19.079	1057.831	1192.726	0.600	104.978	19.079	6.622
2022-07-27 12:15	2931303	8.122	-116.313	19.168	1064.865	1198.359	0.603	25.392	19.168	6.701
2022-07-27 12:30	2932203	8.142	-117.459	19.300	1069.695	1200.372	0.604	12.450	19.300	7.117
2022-07-27 12:45	2933103	8.157	-118.382	19.439	1076.770	1204.735	0.606	9.266	19.439	7.303
2022-07-27 13:00	2934003	8.151	-118.098	19.545	1079.766	1205.348	0.606	9.536	19.545	7.283
2022-07-27 13:15	2934903	8.151	-118.084	19.629	1082.055	1205.736	0.607	9.461	19.629	7.409
2022-07-27 13:30	2935803	8.155	-118.384	19.787	1085.664	1205.705	0.607	9.144	19.787	7.366
2022-07-27 13:45	2936703	8.141	-117.655	19.839	1091.237	1210.560	0.609	6.028	19.839	7.176
2022-07-27 14:00	2937603	8.151	-118.289	20.131	1097.325	1209.832	0.609	7.996	20.131	7.382
2022-07-27 14:15	2938503	8.158	-118.735	20.150	1106.320	1219.259	0.614	7.219	20.150	7.404
2022-07-27 14:30	2939403	8.158	-118.785	20.277	1110.116	1220.185	0.614	9.639	20.277	7.297
2022-07-27 14:45	2940303	8.147	-118.179	20.395	1119.001	1226.919	0.618	8.013	20.395	7.292
2022-07-27 15:00	2941203	8.172	-119.665	20.541	1131.406	1236.730	0.623	8.733	20.541	7.501
2022-07-27 15:15	2942103	8.176	-119.960	20.696	1134.610	1236.228	0.623	7.027	20.696	7.604
2022-07-27 15:30	2943003	8.144	-118.258	21.016	1134.221	1227.631	0.618	6.914	21.016	7.457
2022-07-27 15:45	2943903	8.146	-118.511	21.294	1136.032	1222.566	0.616	7.067	21.294	7.598
2022-07-27 16:00	2944803	8.182	-120.592	21.398	1153.914	1239.174	0.624	8.345	21.398	7.689
2022-07-27 16:15	2945703	8.168	-119.832	21.557	1151.144	1232.172	0.621	6.831	21.557	7.762
2022-07-27 16:30	2946603	8.172	-120.115	21.625	1163.758	1243.947	0.627	6.537	21.625	7.846
2022-07-27 16:45	2947503	8.107	-116.496	21.784	1161.065	1237.048	0.623	6.248	21.784	7.844
2022-07-27 17:00	2948403	8.162	-119.715	22.031	1168.082	1238.316	0.624	7.597	22.031	7.862
2022-07-27 17:15	2949303	8.122	-117.469	22.191	1171.686	1238.112	0.624	5.693	22.191	7.971
2022-07-27 17:30	2950203	8.199	-121.906	22.307	1174.529	1238.217	0.624	5.898	22.307	7.916
2022-07-27 17:45	2951103	8.163	-119.975	22.509	1174.636	1233.309	0.622	6.063	22.509	7.933
2022-07-27 18:00	2952003	8.204	-122.337	22.662	1170.930	1225.673	0.618	6.739	22.662	7.904
2022-07-27 18:15	2952903	8.182	-121.131	22.691	1171.862	1225.918	0.618	5.528	22.691	7.766
2022-07-27 18:30	2953803	8.187	-121.462	22.792	1172.507	1224.126	0.617	5.895	22.792	7.755
2022-07-27 18:45	2954703	8.173	-120.704	22.954	1170.796	1218.414	0.614	5.868	22.954	7.693
2022-07-27 19:00	2955603	8.180	-121.186	23.143	1163.212	1205.990	0.607	6.108	23.143	7.696
2022-07-27 19:15	2956503	8.173	-120.785	23.200	1158.491	1199.727	0.604	5.387	23.200	7.728
2022-07-27 19:30	2957403	8.174	-120.907	23.325	1155.385	1193.569	0.601	5.148	23.325	7.721
2022-07-27 19:45	2958303	8.175	-121.024	23.477	1147.144	1181.521	0.594	5.993	23.477	7.684
2022-07-27 20:00	2959203	8.177	-121.229	23.732	1121.149	1148.972	0.577	6.910	23.732	7.569
2022-07-27 20:15	2960103	8.176	-121.009	23.225	1134.096	1173.899	0.590	6.122	23.225	7.269
2022-07-27 20:30	2961003	8.170	-120.754	23.513	1107.527	1139.898	0.573	4.890	23.513	7.252
2022-07-27 20:45	2961903	8.164	-120.325	23.280	1108.275	1145.918	0.576	5.750	23.280	7.050
2022-07-27 21:00	2962803	8.153	-119.727	23.383	1107.588	1142.887	0.574	5.629	23.383	7.083
2022-07-27 21:15	2963703	8.163	-120.351	23.471	1110.450	1143.846	0.575	5.759	23.471	7.080
2022-07-27 21:30	2964603	8.163	-120.306	23.408	1105.303	1139.978	0.573	5.857	23.408	7.002
2022-07-27 21:45	2965503	8.147	-119.443	23.449	1096.519	1129.985	0.567	6.270	23.449	6.714
2022-07-27 22:00	2966403	8.130	-118.477	23.469	1075.048	1107.432	0.556	7.212	23.469	6.562
2022-07-27 22:15	2967303	8.125	-118.101	23.336	1079.637	1115.083	0.560	5.846	23.336	***6.446***
2022-07-27 22:30	2968203	8.121	-117.874	23.335	1075.928	1111.273	0.558	5.475	23.335	***6.380***
2022-07-27 22:45	2969103	8.129	-118.330	23.290	1064.099	1100.025	0.552	4.939	23.290	***6.375***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-27 23:00	2970003	8.122	-117.931	23.236	1042.220	1078.569	0.540	7.670	23.236	***6.338***
2022-07-27 23:15	2970903	8.122	-117.810	23.030	1036.789	1077.318	0.540	5.820	23.030	***6.310***
2022-07-27 23:30	2971803	8.124	-117.934	23.013	1030.735	1071.397	0.537	6.530	23.013	***6.300***
2022-07-27 23:45	2972703	8.112	-117.238	22.985	1029.990	1071.213	0.537	5.712	22.985	***6.316***
2022-07-28 0:00	2973603	8.084	-115.650	22.995	921.169	957.857	0.478	10.813	22.995	***6.116***
2022-07-28 0:15	2974503	8.071	-114.779	22.665	997.040	1043.588	0.522	9.759	22.665	***6.039***
2022-07-28 0:30	2975403	8.064	-114.396	22.677	983.705	1029.373	0.515	8.146	22.677	***6.015***
2022-07-28 0:45	2976303	8.048	-113.559	22.864	925.449	964.809	0.481	7.627	22.864	***5.705***
2022-07-28 1:00	2977203	8.037	-112.951	22.987	872.450	907.334	0.451	10.334	22.987	***5.576***
2022-07-28 1:15	2978103	8.055	-113.912	22.776	950.598	992.772	0.496	6.254	22.776	***5.552***
2022-07-28 1:30	2979003	8.062	-114.255	22.626	977.729	1024.171	0.512	6.684	22.626	***5.642***
2022-07-28 1:45	2979903	8.072	-114.756	22.450	965.224	1014.649	0.507	7.461	22.450	***5.692***
2022-07-28 2:00	2980803	8.064	-114.391	22.674	873.419	914.019	0.455	8.034	22.674	***5.753***
2022-07-28 2:15	2981703	8.038	-112.803	22.415	933.963	982.474	0.490	11.110	22.415	***5.470***
2022-07-28 2:30	2982603	8.048	-113.368	22.474	900.521	946.165	0.471	5.898	22.474	***5.418***
2022-07-28 2:45	2983503	8.041	-113.001	22.470	915.718	962.212	0.480	6.833	22.470	***5.443***
2022-07-28 3:00	2984403	8.029	-112.269	22.350	882.885	929.963	0.463	9.047	22.350	***5.257***
2022-07-28 3:15	2985303	8.030	-112.269	22.255	897.434	947.093	0.472	8.736	22.255	***5.296***
2022-07-28 3:30	2986203	8.041	-112.858	22.170	894.617	945.735	0.471	6.880	22.170	***5.237***
2022-07-28 3:45	2987103	8.040	-112.808	22.117	891.913	943.893	0.470	7.824	22.117	***5.327***
2022-07-28 4:00	2988003	8.038	-112.627	22.021	874.361	927.104	0.462	9.522	22.021	***5.127***
2022-07-28 4:15	2988903	8.022	-111.711	21.977	891.817	946.468	0.472	6.246	21.977	***5.164***
2022-07-28 4:30	2989803	8.038	-112.624	21.952	883.978	938.629	0.468	7.203	21.952	***5.183***
2022-07-28 4:45	2990703	8.031	-112.188	21.888	889.228	945.423	0.471	6.230	21.888	***5.193***
2022-07-28 5:00	2991603	8.069	-114.281	21.745	861.438	918.547	0.457	8.536	21.745	***5.715***
2022-07-28 5:15	2992503	8.057	-113.618	21.686	885.500	945.329	0.471	7.655	21.686	***5.468***
2022-07-28 5:30	2993403	8.033	-112.233	21.652	885.776	946.280	0.472	6.501	21.652	***5.413***
2022-07-28 5:45	2994303	8.007	-110.750	21.639	886.758	947.582	0.472	9.585	21.639	***5.179***
2022-07-28 6:00	2995203	8.039	-112.541	21.602	878.424	939.398	0.468	12.814	21.602	***5.256***
2022-07-28 6:15	2996103	8.030	-112.011	21.486	920.449	986.672	0.492	8.956	21.486	***5.443***
2022-07-28 6:30	2997003	8.029	-111.911	21.483	926.083	992.765	0.496	7.393	21.483	***5.495***
2022-07-28 6:45	2997903	8.035	-112.209	21.368	923.679	992.534	0.495	52.198	21.368	***5.280***
2022-07-28 7:00	2998803	8.041	-112.557	21.309	921.053	990.918	0.495	9.088	21.309	***5.025***
2022-07-28 7:15	2999703	8.036	-112.236	21.286	931.266	1002.374	0.501	6.886	21.286	***5.352***
2022-07-28 7:30	3000603	8.049	-112.979	21.226	912.597	983.495	0.491	8.590	21.226	***5.369***
2022-07-28 7:45	3001503	8.036	-112.207	21.148	933.196	1007.307	0.503	7.819	21.148	***5.343***
2022-07-28 8:00	3002403	8.056	-113.327	21.149	919.667	992.692	0.496	10.545	21.149	***5.239***
2022-07-28 8:15	3003303	8.034	-112.052	21.104	932.696	1007.680	0.503	7.565	21.104	***5.365***
2022-07-28 8:30	3004203	8.027	-111.651	21.102	923.478	997.756	0.498	6.873	21.102	***5.333***
2022-07-28 8:45	3005103	8.019	-111.213	21.098	887.952	959.453	0.478	7.626	21.098	***5.227***
2022-07-28 9:00	3006003	8.016	-111.036	21.097	840.221	907.898	0.452	7.686	21.097	***5.380***
2022-07-28 9:15	3006903	8.021	-111.318	21.083	875.348	946.124	0.471	10.819	21.083	***5.339***
2022-07-28 9:30	3007803	8.001	-110.211	21.083	861.759	931.436	0.464	10.572	21.083	***5.349***
2022-07-28 9:45	3008703	8.005	-110.414	21.144	788.561	851.256	0.422	7.040	21.144	***5.308***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-28 10:00	3009603	8.044	-112.617	21.127	799.290	863.138	0.428	15.717	21.127	***5.544***
2022-07-28 10:15	3010503	8.053	-113.196	21.230	755.387	814.007	0.403	10.747	21.230	***5.664***
2022-07-28 10:30	3011403	8.035	-112.181	21.246	802.169	864.123	0.429	6.319	21.246	***5.681***
2022-07-28 10:45	3012303	8.038	-112.405	21.433	737.316	791.223	0.392	6.474	21.433	***5.959***
2022-07-28 11:00	3013203	8.030	-111.933	21.334	792.432	852.093	0.423	8.340	21.334	***5.944***
2022-07-28 11:15	3014103	8.037	-112.340	21.332	856.727	921.267	0.459	7.293	21.332	***6.022***
2022-07-28 11:30	3015003	8.036	-112.257	21.301	865.382	931.162	0.464	6.563	21.301	***6.004***
2022-07-28 11:45	3015903	8.052	-113.168	21.259	882.650	950.571	0.474	6.159	21.259	***6.239***
2022-07-28 12:00	3016803	8.081	-114.801	21.247	907.150	977.189	0.487	11.665	21.247	6.579
2022-07-28 12:15	3017703	8.088	-115.154	21.198	918.809	990.765	0.495	7.383	21.198	6.507
2022-07-28 12:30	3018603	8.082	-114.882	21.326	951.737	1023.555	0.512	7.114	21.326	6.651
2022-07-28 12:45	3019503	8.078	-114.655	21.328	965.222	1038.030	0.519	7.208	21.328	6.509
2022-07-28 13:00	3020403	8.088	-115.247	21.407	974.230	1046.017	0.523	9.051	21.407	6.580
2022-07-28 13:15	3021303	8.084	-114.994	21.358	993.329	1067.584	0.535	7.613	21.358	6.952
2022-07-28 13:30	3022203	8.054	-113.320	21.404	1003.686	1077.707	0.540	7.663	21.404	6.725
2022-07-28 13:45	3023103	8.040	-112.698	21.815	983.593	1047.302	0.524	8.402	21.815	7.075
2022-07-28 14:00	3024003	8.080	-114.975	21.929	945.428	1004.336	0.502	10.247	21.929	7.140
2022-07-28 14:15	3024903	8.093	-115.888	22.267	930.517	981.760	0.490	8.603	22.267	7.290
2022-07-28 14:30	3025803	8.096	-116.074	22.330	889.462	937.267	0.467	7.428	22.330	7.305
2022-07-28 14:45	3026703	8.096	-116.134	22.481	872.884	917.000	0.456	7.247	22.481	7.320
2022-07-28 15:00	3027603	8.106	-116.770	22.661	873.683	914.531	0.455	8.338	22.661	7.569
2022-07-28 15:15	3028503	8.102	-116.558	22.759	883.280	922.777	0.459	7.731	22.759	7.454
2022-07-28 15:30	3029403	8.117	-117.476	22.819	883.755	922.163	0.459	6.836	22.819	7.465
2022-07-28 15:45	3030303	8.116	-117.495	23.015	852.850	886.466	0.441	7.188	23.015	7.707
2022-07-28 16:00	3031203	8.116	-117.640	23.407	856.885	883.770	0.439	9.345	23.407	7.806
2022-07-28 16:15	3032103	8.136	-118.845	23.615	853.191	876.372	0.435	6.893	23.615	7.837
2022-07-28 16:30	3033003	8.127	-118.425	23.825	861.573	881.360	0.438	6.935	23.825	7.794
2022-07-28 16:45	3033903	8.125	-118.489	24.206	864.620	877.934	0.436	7.119	24.206	7.993
2022-07-28 17:00	3034803	8.121	-118.351	24.494	870.591	879.085	0.437	9.054	24.494	7.943
2022-07-28 17:15	3035703	8.127	-118.730	24.548	872.464	880.055	0.437	6.589	24.548	7.828
2022-07-28 17:30	3036603	8.105	-117.548	24.763	874.868	878.848	0.437	6.395	24.763	7.820
2022-07-28 17:45	3037503	8.080	-116.274	25.142	879.166	876.787	0.436	6.868	25.142	8.203
2022-07-28 18:00	3038403	8.097	-117.371	25.494	885.467	877.196	0.436	9.117	25.494	8.310
2022-07-28 18:15	3039303	8.108	-118.010	25.510	882.175	873.666	0.434	5.667	25.510	8.286
2022-07-28 18:30	3040203	8.101	-117.710	25.774	887.022	874.103	0.434	5.309	25.774	8.229
2022-07-28 18:45	3041103	8.104	-118.008	26.108	883.638	865.327	0.430	4.662	26.108	8.118
2022-07-28 19:00	3042003	8.077	-116.563	26.326	872.700	851.144	0.422	6.788	26.326	8.274
2022-07-28 19:15	3042903	8.110	-118.504	26.468	866.813	843.170	0.418	9.786	26.468	8.159
2022-07-28 19:30	3043803	8.098	-117.877	26.641	867.478	841.114	0.417	5.618	26.641	7.833
2022-07-28 19:45	3044703	8.109	-118.523	26.696	857.510	830.608	0.412	5.994	26.696	7.554
2022-07-28 20:00	3045603	8.088	-117.338	26.796	734.494	710.137	0.350	7.369	26.796	7.357
2022-07-28 20:15	3046503	8.100	-118.036	26.719	743.156	719.533	0.355	6.220	26.719	7.005
2022-07-28 20:30	3047403	8.100	-118.017	26.663	731.567	709.052	0.349	6.860	26.663	6.818
2022-07-28 20:45	3048303	8.103	-118.139	26.546	718.025	697.427	0.343	6.006	26.546	6.729

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-28 21:00	3049203	8.072	-116.289	26.433	668.572	650.763	0.320	7.414	26.433	6.769
2022-07-28 21:15	3050103	8.093	-117.483	26.372	701.589	683.672	0.336	4.682	26.372	6.561
2022-07-28 21:30	3051003	8.102	-117.931	26.180	754.068	737.444	0.364	5.409	26.180	6.623
2022-07-28 21:45	3051903	8.080	-116.510	25.820	694.317	683.607	0.336	8.889	25.820	7.037
2022-07-28 22:00	3052803	8.061	-115.387	25.743	679.369	669.859	0.329	10.958	25.743	6.673
2022-07-28 22:15	3053703	8.061	-115.347	25.693	696.001	686.911	0.338	7.104	25.693	6.670
2022-07-28 22:30	3054603	8.080	-116.429	25.591	631.807	624.755	0.307	6.711	25.591	6.608
2022-07-28 22:45	3055503	8.077	-116.212	25.442	546.369	541.794	0.265	6.981	25.442	6.618
2022-07-28 23:00	3056403	8.053	-114.753	25.319	467.522	464.695	0.226	6.547	25.319	***6.466***
2022-07-28 23:15	3057303	8.066	-115.485	25.170	459.211	457.722	0.222	7.888	25.170	***6.490***
2022-07-28 23:30	3058203	8.073	-115.821	25.032	458.780	458.500	0.223	7.474	25.032	***6.480***
2022-07-28 23:45	3059103	8.071	-115.619	24.894	464.621	465.560	0.226	6.725	24.894	***6.440***
2022-07-29 0:00	3060003	8.066	-115.278	24.770	458.948	460.969	0.224	11.628	24.770	***6.485***
2022-07-29 0:15	3060903	8.087	-116.472	24.643	447.222	450.295	0.219	7.561	24.643	***6.426***
2022-07-29 0:30	3061803	8.088	-116.446	24.518	481.276	485.746	0.236	11.209	24.518	***6.416***
2022-07-29 0:45	3062703	8.085	-116.243	24.407	491.487	497.114	0.242	9.675	24.407	***6.413***
2022-07-29 1:00	3063603	8.072	-115.449	24.265	477.593	484.389	0.236	6.084	24.265	***6.450***
2022-07-29 1:15	3064503	8.057	-114.548	24.157	516.964	525.423	0.256	6.374	24.157	***6.350***
2022-07-29 1:30	3065403	8.059	-114.658	24.072	581.251	591.740	0.290	6.975	24.072	***6.270***
2022-07-29 1:45	3066303	8.043	-113.661	23.980	587.116	598.785	0.293	9.837	23.980	***6.118***
2022-07-29 2:00	3067203	8.042	-113.559	23.874	550.920	563.026	0.275	638.775	23.874	***6.043***
2022-07-29 2:15	3068103	8.058	-114.455	23.777	593.406	607.600	0.298	8.746	23.777	***6.152***
2022-07-29 2:30	3069003	8.035	-113.101	23.667	604.475	620.273	0.304	9.213	23.667	***5.933***
2022-07-29 2:45	3069903	8.039	-113.308	23.597	625.216	642.434	0.316	7.812	23.597	***5.847***
2022-07-29 3:00	3070803	8.041	-113.375	23.546	580.676	597.266	0.293	8.017	23.546	***5.925***
2022-07-29 3:15	3071703	8.052	-113.966	23.449	571.934	589.398	0.289	6.269	23.449	***6.066***
2022-07-29 3:30	3072603	8.058	-114.279	23.342	534.051	551.511	0.270	6.865	23.342	***6.013***
2022-07-29 3:45	3073503	8.054	-114.024	23.272	531.074	549.195	0.268	6.051	23.272	***5.963***
2022-07-29 4:00	3074403	8.053	-113.928	23.180	503.206	521.330	0.254	8.407	23.180	***6.016***
2022-07-29 4:15	3075303	8.042	-113.282	23.157	597.292	619.085	0.304	6.513	23.157	***5.873***
2022-07-29 4:30	3076203	8.030	-112.619	23.078	597.722	620.499	0.304	5.403	23.078	***5.701***
2022-07-29 4:45	3077103	8.021	-112.021	22.993	602.241	626.244	0.307	7.512	22.993	***5.673***
2022-07-29 5:00	3078003	7.976	-109.422	22.913	596.392	621.148	0.305	8.114	22.913	***5.223***
2022-07-29 5:15	3078903	8.007	-111.220	22.863	606.191	631.986	0.310	8.296	22.863	***5.373***
2022-07-29 5:30	3079803	8.029	-112.422	22.800	620.664	647.885	0.318	10.104	22.800	***5.577***
2022-07-29 5:45	3080703	8.026	-112.233	22.729	544.175	568.849	0.278	8.526	22.729	***5.626***
2022-07-29 6:00	3081603	7.994	-110.404	22.654	529.721	554.570	0.271	9.223	22.654	***5.347***
2022-07-29 6:15	3082503	8.025	-112.135	22.605	550.951	577.360	0.283	6.793	22.605	***5.469***
2022-07-29 6:30	3083403	8.022	-111.949	22.557	518.449	543.823	0.266	6.463	22.557	***5.626***
2022-07-29 6:45	3084303	8.009	-111.179	22.509	539.456	566.403	0.277	5.736	22.509	***5.555***
2022-07-29 7:00	3085203	7.994	-110.316	22.480	503.420	528.875	0.258	6.727	22.480	***5.583***
2022-07-29 7:15	3086103	8.005	-110.905	22.448	558.905	587.546	0.288	7.294	22.448	***5.458***
2022-07-29 7:30	3087003	7.997	-110.483	22.440	541.247	569.069	0.278	7.743	22.440	***5.450***
2022-07-29 7:45	3087903	8.024	-112.021	22.448	476.029	500.416	0.244	7.021	22.448	***5.596***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-29 8:00	3088803	7.974	-109.162	22.464	459.118	482.492	0.235	6.673	22.464	***5.743***
2022-07-29 8:15	3089703	8.034	-112.591	22.481	437.187	459.285	0.223	5.721	22.481	***5.801***
2022-07-29 8:30	3090603	8.043	-113.082	22.490	433.014	454.817	0.221	4.803	22.490	***5.849***
2022-07-29 8:45	3091503	8.047	-113.349	22.507	432.871	454.517	0.221	6.882	22.507	***5.830***
2022-07-29 9:00	3092403	8.054	-113.723	22.520	421.564	442.521	0.215	6.544	22.520	***5.968***
2022-07-29 9:15	3093303	8.064	-114.312	22.528	418.930	439.689	0.213	4.981	22.528	***5.892***
2022-07-29 9:30	3094203	8.056	-113.871	22.522	419.813	440.672	0.214	5.646	22.522	***5.864***
2022-07-29 9:45	3095103	8.071	-114.698	22.541	419.394	440.065	0.214	5.505	22.541	***5.908***
2022-07-29 10:00	3096003	8.055	-113.814	22.587	419.814	440.100	0.214	6.549	22.587	***5.995***
2022-07-29 10:15	3096903	8.075	-114.956	22.604	421.886	442.116	0.215	5.385	22.604	***6.094***
2022-07-29 10:30	3097803	8.072	-114.808	22.648	421.420	441.241	0.214	4.997	22.648	***6.105***
2022-07-29 10:45	3098703	8.072	-114.830	22.683	424.939	444.619	0.216	7.191	22.683	***6.099***
2022-07-29 11:00	3099603	8.070	-114.732	22.775	423.724	442.534	0.215	5.706	22.775	***6.207***
2022-07-29 11:15	3100503	8.109	-117.028	22.872	421.525	439.382	0.213	6.439	22.872	***6.327***
2022-07-29 11:30	3101403	8.127	-118.108	22.983	417.868	434.613	0.211	6.295	22.983	6.518
2022-07-29 11:45	3102303	8.126	-118.082	23.077	418.117	434.064	0.211	6.462	23.077	6.574
2022-07-29 12:00	3103203	8.084	-115.728	23.214	425.578	440.604	0.214	10.049	23.214	6.548
2022-07-29 12:15	3104103	8.096	-116.401	23.232	429.506	444.518	0.216	4.588	23.232	***6.465***
2022-07-29 12:30	3105003	8.111	-117.328	23.327	432.021	446.283	0.217	5.799	23.327	6.596
2022-07-29 12:45	3105903	8.097	-116.596	23.513	435.237	447.960	0.218	4.923	23.513	6.637
2022-07-29 13:00	3106803	8.081	-115.736	23.693	434.865	445.997	0.217	6.083	23.693	6.657
2022-07-29 13:15	3107703	8.139	-119.164	23.997	434.063	442.537	0.215	5.218	23.997	6.811
2022-07-29 13:30	3108603	8.122	-118.294	24.252	433.329	439.613	0.213	5.923	24.252	6.804
2022-07-29 13:45	3109503	8.123	-118.592	24.767	436.702	438.655	0.213	4.437	24.767	6.837
2022-07-29 14:00	3110403	8.077	-115.933	24.811	442.279	443.878	0.215	5.859	24.811	6.811
2022-07-29 14:15	3111303	8.082	-116.251	24.822	447.267	448.793	0.218	5.332	24.822	6.658
2022-07-29 14:30	3112203	8.091	-116.823	24.922	447.779	448.448	0.218	4.777	24.922	6.690
2022-07-29 14:45	3113103	8.102	-117.500	25.043	443.267	442.906	0.215	5.290	25.043	6.837
2022-07-29 15:00	3114003	8.066	-115.542	25.315	448.751	446.065	0.217	6.001	25.315	6.935
2022-07-29 15:15	3114903	8.082	-116.525	25.507	452.877	448.534	0.218	4.980	25.507	6.933
2022-07-29 15:30	3115803	8.104	-118.005	26.026	463.176	454.269	0.221	4.663	26.026	7.079
2022-07-29 15:45	3116703	8.093	-117.371	26.124	451.625	442.129	0.215	5.218	26.124	7.001
2022-07-29 16:00	3117603	8.063	-115.681	26.160	456.636	446.734	0.217	7.351	26.160	6.721
2022-07-29 16:15	3118503	8.118	-118.847	26.200	456.921	446.684	0.217	5.553	26.200	6.903
2022-07-29 16:30	3119403	8.109	-118.442	26.403	456.372	444.465	0.216	5.790	26.403	6.811
2022-07-29 16:45	3120303	8.095	-117.648	26.479	460.350	447.703	0.217	5.171	26.479	6.803
2022-07-29 17:00	3121203	8.094	-117.629	26.571	458.306	444.957	0.216	5.801	26.571	6.868
2022-07-29 17:15	3122103	8.105	-118.260	26.652	462.031	447.895	0.217	4.949	26.652	6.768
2022-07-29 17:30	3123003	8.131	-119.848	26.782	461.437	446.251	0.217	6.292	26.782	6.917
2022-07-29 17:45	3123903	8.103	-118.220	26.806	466.510	450.958	0.219	4.882	26.806	6.854
2022-07-29 18:00	3124803	8.100	-118.043	26.731	468.826	453.821	0.220	9.179	26.731	6.903
2022-07-29 18:15	3125703	8.140	-120.354	26.750	467.784	452.654	0.220	5.471	26.750	6.913
2022-07-29 18:30	3126603	8.136	-120.082	26.736	464.768	449.855	0.218	5.228	26.736	6.876
2022-07-29 18:45	3127503	8.127	-119.600	26.769	461.439	446.359	0.217	5.361	26.769	6.888

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-29 19:00	3128403	8.089	-117.352	26.663	462.781	448.531	0.218	19.555	26.663	6.902
2022-07-29 19:15	3129303	8.106	-118.349	26.661	463.282	449.036	0.218	4.488	26.661	6.830
2022-07-29 19:30	3130203	8.127	-119.524	26.564	458.424	445.129	0.216	4.607	26.564	6.843
2022-07-29 19:45	3131103	8.127	-119.498	26.492	455.421	442.802	0.215	5.156	26.492	6.774
2022-07-29 20:00	3132003	8.112	-118.585	26.355	451.680	440.288	0.214	5.658	26.355	6.830
2022-07-29 20:15	3132903	8.131	-119.617	26.228	448.013	437.747	0.212	6.696	26.228	6.820
2022-07-29 20:30	3133803	8.132	-119.600	26.071	444.525	435.613	0.211	4.805	26.071	6.782
2022-07-29 20:45	3134703	8.138	-119.889	25.909	442.191	434.645	0.211	5.835	25.909	6.747
2022-07-29 21:00	3135603	8.115	-118.489	25.753	440.702	434.455	0.211	4.986	25.753	6.715
2022-07-29 21:15	3136503	8.138	-119.791	25.611	439.018	433.955	0.211	5.483	25.611	6.650
2022-07-29 21:30	3137403	8.144	-120.049	25.493	436.716	432.641	0.210	5.125	25.493	6.745
2022-07-29 21:45	3138303	8.147	-120.194	25.353	435.120	432.204	0.210	5.733	25.353	6.774
2022-07-29 22:00	3139203	8.128	-119.026	25.183	434.059	432.547	0.210	5.400	25.183	6.769
2022-07-29 22:15	3140103	8.145	-119.932	25.034	438.733	438.451	0.213	7.079	25.034	6.793
2022-07-29 22:30	3141003	8.132	-119.126	24.899	436.758	437.602	0.212	4.708	24.899	6.782
2022-07-29 22:45	3141903	8.126	-118.759	24.765	435.891	437.860	0.212	5.799	24.765	6.706
2022-07-29 23:00	3142803	8.112	-117.910	24.626	435.904	439.038	0.213	7.417	24.626	6.677
2022-07-29 23:15	3143703	8.121	-118.344	24.494	436.163	440.416	0.214	5.354	24.494	6.640
2022-07-29 23:30	3144603	8.133	-119.042	24.433	431.731	436.460	0.212	7.481	24.433	6.675
2022-07-29 23:45	3145503	8.135	-119.071	24.319	430.042	435.705	0.211	5.243	24.319	6.618
2022-07-30 0:00	3146403	8.122	-118.291	24.227	430.142	436.592	0.212	8.610	24.227	6.562
2022-07-30 0:15	3147303	8.129	-118.706	24.182	427.651	434.436	0.211	5.740	24.182	6.574
2022-07-30 0:30	3148203	8.120	-118.170	24.122	427.832	435.129	0.211	5.795	24.122	6.568
2022-07-30 0:45	3149103	8.135	-119.009	24.070	426.974	434.698	0.211	5.888	24.070	6.546
2022-07-30 1:00	3150003	8.099	-116.866	23.994	427.161	435.533	0.211	6.854	23.994	***6.479***
2022-07-30 1:15	3150903	8.138	-119.083	23.931	424.491	433.341	0.210	5.209	23.931	***6.438***
2022-07-30 1:30	3151803	8.137	-118.992	23.870	423.384	432.727	0.210	5.983	23.870	***6.455***
2022-07-30 1:45	3152703	8.128	-118.449	23.780	424.176	434.294	0.211	5.348	23.780	***6.422***
2022-07-30 2:00	3153603	8.110	-117.412	23.699	424.620	435.440	0.211	5.816	23.699	***6.352***
2022-07-30 2:15	3154503	8.120	-117.955	23.643	423.571	434.839	0.211	4.787	23.643	***6.320***
2022-07-30 2:30	3155403	8.097	-116.622	23.579	426.435	438.335	0.213	6.263	23.579	***6.261***
2022-07-30 2:45	3156303	8.091	-116.215	23.482	426.204	438.927	0.213	5.986	23.482	***6.174***
2022-07-30 3:00	3157203	8.071	-115.035	23.368	430.150	443.991	0.216	5.611	23.368	***6.138***
2022-07-30 3:15	3158103	8.079	-115.480	23.245	430.250	445.174	0.216	5.835	23.245	***6.096***
2022-07-30 3:30	3159003	8.090	-116.074	23.185	427.983	443.348	0.215	5.746	23.185	***6.114***
2022-07-30 3:45	3159903	8.100	-116.656	23.184	423.672	438.892	0.213	5.552	23.184	***6.135***
2022-07-30 4:00	3160803	8.053	-113.878	23.000	439.133	456.570	0.222	6.929	23.000	***6.051***
2022-07-30 4:15	3161703	8.095	-116.162	22.648	390.621	408.993	0.198	48.225	22.648	***6.234***
2022-07-30 4:30	3162603	8.073	-114.853	22.620	408.423	427.875	0.208	19.035	22.620	***6.139***
2022-07-30 4:45	3163503	8.094	-116.115	22.771	420.536	439.240	0.213	8.096	22.771	***6.296***
2022-07-30 5:00	3164403	8.113	-117.252	22.824	423.107	441.450	0.214	10.650	22.824	***6.419***
2022-07-30 5:15	3165303	8.109	-116.954	22.744	419.976	438.886	0.213	13.629	22.744	***6.390***
2022-07-30 5:30	3166203	8.140	-118.742	22.774	414.537	432.946	0.210	12.605	22.774	***6.463***
2022-07-30 5:45	3167103	8.135	-118.444	22.723	415.323	434.209	0.211	10.514	22.723	6.523

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-30 6:00	3168003	8.147	-119.112	22.730	411.178	429.813	0.209	21.535	22.730	6.510
2022-07-30 6:15	3168903	8.141	-118.783	22.696	411.738	430.690	0.209	10.792	22.696	6.543
2022-07-30 6:30	3169803	8.137	-118.506	22.647	412.779	432.199	0.210	10.357	22.647	6.519
2022-07-30 6:45	3170703	8.137	-118.551	22.643	409.020	428.300	0.208	10.372	22.643	6.504
2022-07-30 7:00	3171603	8.114	-117.207	22.550	417.306	437.788	0.212	15.783	22.550	***6.450***
2022-07-30 7:15	3172503	8.120	-117.526	22.592	413.540	433.477	0.210	10.333	22.592	***6.467***
2022-07-30 7:30	3173403	8.125	-117.838	22.578	411.431	431.386	0.209	11.007	22.578	***6.498***
2022-07-30 7:45	3174303	8.141	-118.749	22.616	409.322	428.846	0.208	10.077	22.616	6.548
2022-07-30 8:00	3175203	8.131	-118.160	22.559	412.202	432.359	0.210	14.666	22.559	6.530
2022-07-30 8:15	3176103	8.145	-118.983	22.588	408.398	428.122	0.208	10.320	22.588	6.530
2022-07-30 8:30	3177003	8.136	-118.437	22.586	407.986	427.704	0.207	10.537	22.586	6.564
2022-07-30 8:45	3177903	8.140	-118.644	22.570	407.055	426.867	0.207	9.871	22.570	6.533
2022-07-30 9:00	3178803	8.132	-118.225	22.562	406.707	426.570	0.207	16.385	22.562	6.503
2022-07-30 9:15	3179703	8.143	-118.840	22.543	408.510	428.625	0.208	10.297	22.543	6.541
2022-07-30 9:30	3180603	8.132	-118.217	22.517	410.273	430.702	0.209	9.147	22.517	6.512
2022-07-30 9:45	3181503	8.144	-118.892	22.555	405.896	425.777	0.207	9.635	22.555	6.564
2022-07-30 10:00	3182403	8.142	-118.771	22.536	408.038	428.188	0.208	14.419	22.536	6.555
2022-07-30 10:15	3183303	8.142	-118.761	22.548	407.402	427.419	0.207	11.671	22.548	6.578
2022-07-30 10:30	3184203	8.135	-118.389	22.528	407.123	427.302	0.207	9.973	22.528	6.569
2022-07-30 10:45	3185103	8.146	-118.973	22.544	405.335	425.281	0.206	9.780	22.544	6.593
2022-07-30 11:00	3186003	8.144	-118.890	22.555	405.153	425.004	0.206	21.572	22.555	6.628
2022-07-30 11:15	3186903	8.144	-118.847	22.495	407.634	428.121	0.208	9.857	22.495	6.601
2022-07-30 11:30	3187803	8.153	-119.369	22.525	405.424	425.538	0.206	10.064	22.525	6.646
2022-07-30 11:45	3188703	8.158	-119.703	22.540	404.477	424.418	0.206	11.716	22.540	6.697
2022-07-30 12:00	3189603	8.163	-119.991	22.588	404.465	424.000	0.206	14.059	22.588	6.737
2022-07-30 12:15	3190503	8.155	-119.529	22.584	406.257	425.907	0.207	9.289	22.584	6.736
2022-07-30 12:30	3191403	8.161	-119.877	22.655	405.439	424.447	0.206	8.580	22.655	6.750
2022-07-30 12:45	3192303	8.138	-118.561	22.636	411.559	431.024	0.209	8.289	22.636	6.778
2022-07-30 13:00	3193203	8.161	-119.927	22.733	406.099	424.481	0.206	10.469	22.733	6.824
2022-07-30 13:15	3194103	8.166	-120.242	22.763	406.566	424.712	0.206	9.237	22.763	6.865
2022-07-30 13:30	3195003	8.064	-114.398	22.778	410.364	428.552	0.208	9.514	22.778	***6.378***
2022-07-30 13:45	3195903	8.174	-120.692	22.816	408.911	426.714	0.207	13.687	22.816	6.527
2022-07-30 14:00	3196803	8.162	-120.034	22.900	408.871	425.956	0.207	22.961	22.900	***6.256***
2022-07-30 14:15	3197703	8.160	-120.015	23.056	413.299	429.240	0.208	12.781	23.056	6.944
2022-07-30 14:30	3198603	8.148	-119.369	23.213	419.258	434.076	0.211	7.892	23.213	7.042
2022-07-30 14:45	3199503	8.140	-118.902	23.224	419.964	434.714	0.211	7.842	23.224	7.063
2022-07-30 15:00	3200403	8.152	-119.679	23.331	417.841	431.599	0.209	9.534	23.331	7.068
2022-07-30 15:15	3201303	8.163	-120.387	23.581	423.086	434.873	0.211	8.472	23.581	7.072
2022-07-30 15:30	3202203	8.190	-122.113	23.967	424.800	433.350	0.210	7.408	23.967	7.234
2022-07-30 15:45	3203103	8.177	-121.431	24.116	424.189	431.477	0.209	7.870	24.116	7.202
2022-07-30 16:00	3204003	8.165	-120.773	24.301	424.763	430.509	0.209	12.701	24.301	7.094
2022-07-30 16:15	3204903	8.161	-120.664	24.472	433.351	437.765	0.212	7.303	24.472	7.146
2022-07-30 16:30	3205803	8.180	-121.846	24.735	432.223	434.425	0.211	7.863	24.735	7.101
2022-07-30 16:45	3206703	8.208	-123.549	24.956	426.393	426.750	0.207	6.910	24.956	7.159

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-30 17:00	3207603	8.172	-121.512	25.108	430.248	429.361	0.208	10.191	25.108	7.203
2022-07-30 17:15	3208503	8.173	-121.555	25.071	433.494	432.905	0.210	7.141	25.071	7.275
2022-07-30 17:30	3209403	8.160	-120.740	24.892	434.903	435.804	0.211	7.225	24.892	7.196
2022-07-30 17:45	3210303	8.192	-122.640	25.081	430.482	429.821	0.208	6.708	25.081	7.279
2022-07-30 18:00	3211203	8.142	-119.731	24.916	436.015	436.714	0.212	7.226	24.916	7.172
2022-07-30 18:15	3212103	8.164	-120.983	24.882	431.057	432.028	0.210	7.450	24.882	7.156
2022-07-30 18:30	3213003	8.125	-118.752	24.863	439.033	440.189	0.214	5.999	24.863	6.947
2022-07-30 18:45	3213903	8.092	-116.796	24.755	442.570	444.649	0.216	6.388	24.755	6.975
2022-07-30 19:00	3214803	8.072	-115.645	24.697	436.841	439.386	0.213	6.723	24.697	6.967
2022-07-30 19:15	3215703	8.121	-118.446	24.665	436.541	439.353	0.213	5.439	24.665	6.967
2022-07-30 19:30	3216603	8.149	-119.977	24.583	432.100	435.569	0.211	7.328	24.583	6.988
2022-07-30 19:45	3217503	8.184	-121.975	24.539	423.874	427.636	0.207	6.698	24.539	7.123
2022-07-30 20:00	3218403	8.164	-120.764	24.418	425.448	430.233	0.209	9.775	24.418	7.107
2022-07-30 20:15	3219303	8.145	-119.631	24.305	427.885	433.641	0.210	6.114	24.305	7.008
2022-07-30 20:30	3220203	8.184	-121.844	24.245	421.793	427.961	0.208	6.625	24.245	7.134
2022-07-30 20:45	3221103	8.183	-121.758	24.146	419.950	426.914	0.207	6.219	24.146	7.131
2022-07-30 21:00	3222003	8.186	-121.942	24.091	418.281	425.670	0.206	12.635	24.091	7.145
2022-07-30 21:15	3222903	8.183	-121.684	23.997	418.801	426.982	0.207	5.971	23.997	7.100
2022-07-30 21:30	3223803	8.183	-121.682	23.918	419.255	428.101	0.208	5.641	23.918	7.041
2022-07-30 21:45	3224703	8.144	-119.374	23.813	424.671	434.523	0.211	6.187	23.813	6.810
2022-07-30 22:00	3225603	8.178	-121.288	23.751	417.584	427.793	0.207	11.952	23.751	7.002
2022-07-30 22:15	3226503	8.174	-121.062	23.665	417.133	428.043	0.208	6.423	23.665	6.959
2022-07-30 22:30	3227403	8.158	-120.099	23.532	418.636	430.713	0.209	7.519	23.532	6.868
2022-07-30 22:45	3228303	8.165	-120.435	23.467	416.323	428.884	0.208	6.643	23.467	6.845
2022-07-30 23:00	3229203	8.150	-119.581	23.362	417.344	430.821	0.209	7.728	23.362	6.825
2022-07-30 23:15	3230103	8.162	-120.206	23.333	414.764	428.405	0.208	9.295	23.333	6.800
2022-07-30 23:30	3231003	8.150	-119.512	23.255	414.838	429.142	0.208	7.535	23.255	6.751
2022-07-30 23:45	3231903	8.153	-119.653	23.215	413.509	428.104	0.208	6.491	23.215	6.719
2022-07-31 0:00	3232803	8.142	-118.988	23.145	414.264	429.479	0.208	13.170	23.145	6.647
2022-07-31 0:15	3233703	8.136	-118.644	23.090	413.625	429.283	0.208	11.683	23.090	6.614
2022-07-31 0:30	3234603	8.143	-119.042	23.050	412.675	428.637	0.208	6.059	23.050	6.606
2022-07-31 0:45	3235503	8.117	-117.490	22.962	415.629	432.465	0.210	7.545	22.962	6.520
2022-07-31 1:00	3236403	8.120	-117.683	22.952	412.585	429.383	0.208	7.213	22.952	6.501
2022-07-31 1:15	3237303	8.129	-118.170	22.895	411.291	428.523	0.208	7.109	22.895	***6.493***
2022-07-31 1:30	3238203	8.114	-117.297	22.868	412.764	430.288	0.209	6.494	22.868	***6.466***
2022-07-31 1:45	3239103	8.114	-117.292	22.788	411.201	429.344	0.208	8.235	22.788	***6.424***
2022-07-31 2:00	3240003	8.117	-117.402	22.738	410.253	428.777	0.208	14.732	22.738	***6.400***
2022-07-31 2:15	3240903	8.108	-116.911	22.693	410.363	429.278	0.208	7.275	22.693	***6.347***
2022-07-31 2:30	3241803	8.112	-117.095	22.647	409.740	429.020	0.208	6.246	22.647	***6.338***
2022-07-31 2:45	3242703	8.107	-116.806	22.613	409.578	429.143	0.208	10.955	22.613	***6.328***
2022-07-31 3:00	3243603	8.102	-116.494	22.545	414.172	434.548	0.211	7.560	22.545	***6.281***
2022-07-31 3:15	3244503	8.101	-116.441	22.492	409.749	430.365	0.209	6.496	22.492	***6.246***
2022-07-31 3:30	3245403	8.107	-116.761	22.461	407.532	428.299	0.208	7.603	22.461	***6.265***
2022-07-31 3:45	3246303	8.103	-116.394	22.127	373.564	395.251	0.191	21.116	22.127	***6.347***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-31 4:00	3247203	8.102	-116.367	22.229	398.964	421.264	0.204	11.917	22.229	***6.267***
2022-07-31 4:15	3248103	8.091	-115.743	22.253	405.913	428.389	0.208	7.936	22.253	***6.290***
2022-07-31 4:30	3249003	8.097	-116.093	22.227	405.157	427.817	0.208	7.729	22.227	***6.342***
2022-07-31 4:45	3249903	8.075	-114.822	22.154	411.466	435.117	0.211	8.200	22.154	***6.087***
2022-07-31 5:00	3250803	8.102	-116.339	22.178	407.277	430.481	0.209	10.665	22.178	***6.317***
2022-07-31 5:15	3251703	8.083	-115.232	22.116	408.297	432.094	0.210	9.826	22.116	***6.256***
2022-07-31 5:30	3252603	8.077	-114.887	22.074	409.240	433.468	0.210	8.171	22.074	***6.246***
2022-07-31 5:45	3253503	8.076	-114.791	22.042	407.742	432.156	0.210	7.885	22.042	***6.244***
2022-07-31 6:00	3254403	8.077	-114.872	22.020	409.347	434.057	0.211	19.407	22.020	***6.210***
2022-07-31 6:15	3255303	8.056	-113.659	21.960	410.678	435.997	0.212	7.433	21.960	***6.141***
2022-07-31 6:30	3256203	8.082	-115.135	21.987	405.683	430.456	0.209	7.311	21.987	***6.209***
2022-07-31 6:45	3257103	8.079	-114.944	21.948	407.021	432.215	0.210	7.520	21.948	***6.194***
2022-07-31 7:00	3258003	8.085	-115.297	21.928	407.323	432.712	0.210	11.558	21.928	***6.222***
2022-07-31 7:15	3258903	8.078	-114.884	21.896	407.643	433.332	0.210	8.004	21.896	***6.205***
2022-07-31 7:30	3259803	8.080	-114.996	21.889	407.108	432.824	0.210	8.053	21.889	***6.212***
2022-07-31 7:45	3260703	8.072	-114.543	21.855	406.306	432.274	0.210	8.343	21.855	***6.195***
2022-07-31 8:00	3261603	8.076	-114.713	21.848	406.768	432.829	0.210	15.104	21.848	***6.179***
2022-07-31 8:15	3262503	8.075	-114.679	21.835	406.321	432.467	0.210	8.163	21.835	***6.216***
2022-07-31 8:30	3263403	8.078	-114.841	21.841	405.326	431.356	0.209	10.149	21.841	***6.216***
2022-07-31 8:45	3264303	8.086	-115.342	21.866	404.663	430.429	0.209	10.333	21.866	***6.241***
2022-07-31 9:00	3265203	8.083	-115.161	21.845	406.131	432.174	0.210	11.058	21.845	***6.231***
2022-07-31 9:15	3266103	8.085	-115.263	21.827	403.741	429.791	0.209	11.203	21.827	***6.221***
2022-07-31 9:30	3267003	8.093	-115.721	21.840	403.423	429.340	0.208	9.574	21.840	***6.293***
2022-07-31 9:45	3267903	8.092	-115.654	21.863	402.796	428.467	0.208	9.546	21.863	***6.251***
2022-07-31 10:00	3268803	8.104	-116.363	21.965	404.192	429.060	0.208	18.317	21.965	***6.316***
2022-07-31 10:15	3269703	8.111	-116.818	22.124	405.491	429.062	0.208	10.621	22.124	***6.400***
2022-07-31 10:30	3270603	8.107	-116.687	22.256	407.825	430.379	0.209	9.757	22.256	***6.440***
2022-07-31 10:45	3271503	8.111	-116.932	22.407	408.854	430.160	0.209	9.493	22.407	6.518
2022-07-31 11:00	3272403	8.115	-117.185	22.438	411.767	432.955	0.210	13.656	22.438	6.568
2022-07-31 11:15	3273303	8.117	-117.314	22.457	410.065	430.998	0.209	9.251	22.457	6.525
2022-07-31 11:30	3274203	8.123	-117.664	22.485	410.784	431.511	0.209	10.477	22.485	6.639
2022-07-31 11:45	3275103	8.131	-118.148	22.537	408.560	428.732	0.208	9.061	22.537	6.652
2022-07-31 12:00	3276003	8.132	-118.282	22.699	409.490	428.313	0.208	12.043	22.699	6.723
2022-07-31 12:15	3276903	8.103	-116.606	22.684	413.591	432.735	0.210	10.646	22.684	6.750
2022-07-31 12:30	3277803	8.121	-117.714	22.862	418.867	436.697	0.212	7.715	22.862	6.852
2022-07-31 12:45	3278703	8.135	-118.570	23.106	415.954	431.564	0.209	7.178	23.106	6.861
2022-07-31 13:00	3279603	8.121	-117.877	23.274	419.654	433.961	0.211	9.246	23.274	6.839
2022-07-31 13:15	3280503	8.152	-119.793	23.619	419.448	430.810	0.209	7.235	23.619	6.913
2022-07-31 13:30	3281403	8.165	-120.697	24.005	419.636	427.769	0.207	8.563	24.005	7.064
2022-07-31 13:45	3282303	8.159	-120.385	24.169	423.003	429.828	0.209	7.474	24.169	7.038
2022-07-31 14:00	3283203	8.131	-118.790	24.092	428.046	435.602	0.211	8.844	24.092	7.017
2022-07-31 14:15	3284103	8.128	-118.685	24.281	431.627	437.633	0.212	7.073	24.281	7.071
2022-07-31 14:30	3285003	8.126	-118.546	24.326	433.536	439.191	0.213	6.806	24.326	7.047
2022-07-31 14:45	3285903	8.125	-118.546	24.475	435.032	439.441	0.213	7.072	24.475	7.059

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-07-31 15:00	3286803	8.135	-119.240	24.762	433.331	435.313	0.211	6.766	24.762	7.135
2022-07-31 15:15	3287703	8.150	-120.215	24.924	432.269	432.898	0.210	6.554	24.924	7.114
2022-07-31 15:30	3288603	8.137	-119.562	25.218	440.725	438.900	0.213	6.084	25.218	7.100
2022-07-31 15:45	3289503	8.124	-118.897	25.374	446.706	443.538	0.215	5.766	25.374	7.105
2022-07-31 16:00	3290403	8.126	-119.014	25.408	441.545	438.132	0.213	7.935	25.408	7.091
2022-07-31 16:15	3291303	8.144	-120.029	25.350	438.917	436.005	0.212	11.294	25.350	7.182
2022-07-31 16:30	3292203	8.114	-118.206	25.159	442.995	441.652	0.214	5.155	25.159	6.946
2022-07-31 16:45	3293103	8.125	-118.799	24.991	438.597	438.668	0.213	5.394	24.991	6.925
2022-07-31 17:00	3294003	8.127	-118.861	24.925	434.140	434.761	0.211	6.573	24.925	6.853
2022-07-31 17:15	3294903	8.116	-118.177	24.728	433.236	435.497	0.211	5.085	24.728	6.782
2022-07-31 17:30	3295803	8.125	-118.628	24.604	431.972	435.268	0.211	5.716	24.604	6.737
2022-07-31 17:45	3296703	8.096	-116.856	24.392	433.115	438.202	0.213	5.709	24.392	6.589
2022-07-31 18:00	3297603	8.090	-116.465	24.268	436.443	442.634	0.215	14.349	24.268	6.705
2022-07-31 18:15	3298503	8.099	-116.971	24.240	435.917	442.342	0.215	5.622	24.240	6.776
2022-07-31 18:30	3299403	8.101	-117.068	24.166	434.364	441.394	0.214	4.901	24.166	6.768
2022-07-31 18:45	3300303	8.101	-117.064	24.128	437.405	444.812	0.216	4.900	24.128	6.802
2022-07-31 19:00	3301203	8.107	-117.395	24.122	436.204	443.646	0.215	6.053	24.122	6.797
2022-07-31 19:15	3302103	8.132	-118.837	24.185	435.605	442.494	0.215	5.024	24.185	6.784
2022-07-31 19:30	3303003	8.146	-119.627	24.155	434.800	441.934	0.215	4.981	24.155	6.897
2022-07-31 19:45	3303903	8.131	-118.766	24.078	435.121	442.919	0.215	5.068	24.078	6.957
2022-07-31 20:00	3304803	8.124	-118.327	23.996	437.063	445.608	0.216	6.730	23.996	6.945
2022-07-31 20:15	3305703	8.126	-118.446	23.944	435.317	444.277	0.216	4.876	23.944	6.860
2022-07-31 20:30	3306603	8.124	-118.294	23.850	434.068	443.816	0.215	5.397	23.850	6.852
2022-07-31 20:45	3307503	8.112	-117.536	23.767	433.654	444.111	0.216	5.872	23.767	6.826
2022-07-31 21:00	3308403	8.108	-117.295	23.682	434.286	445.497	0.216	8.438	23.682	6.797
2022-07-31 21:15	3309303	8.114	-117.569	23.607	433.597	445.449	0.216	6.658	23.607	6.785
2022-07-31 21:30	3310203	8.129	-118.392	23.512	427.576	440.081	0.214	8.751	23.512	6.811
2022-07-31 21:45	3311103	8.125	-118.172	23.400	424.995	438.389	0.213	7.699	23.400	6.676
2022-07-31 22:00	3312003	8.117	-117.640	23.342	426.281	440.225	0.214	7.934	23.342	6.712
2022-07-31 22:15	3312903	8.125	-118.098	23.296	424.821	439.115	0.213	7.009	23.296	6.727
2022-07-31 22:30	3313803	8.113	-117.378	23.222	423.388	438.275	0.213	7.214	23.222	6.679
2022-07-31 22:45	3314703	8.126	-118.113	23.156	421.158	436.535	0.212	6.717	23.156	6.680
2022-07-31 23:00	3315603	8.102	-116.677	23.056	424.648	441.023	0.214	10.394	23.056	***6.395***
2022-07-31 23:15	3316503	8.104	-116.777	23.023	423.088	439.695	0.213	6.231	23.023	6.646
2022-07-31 23:30	3317403	8.120	-117.705	22.983	420.860	437.720	0.212	10.783	22.983	6.625
2022-07-31 23:45	3318303	8.107	-116.949	22.921	421.223	438.638	0.213	6.029	22.921	6.551
2022-08-01 0:00	3319203	8.124	-117.867	22.901	418.092	435.553	0.211	9.141	22.901	6.523
2022-08-01 0:15	3320103	8.113	-117.235	22.870	418.339	436.080	0.212	8.885	22.870	6.599
2022-08-01 0:30	3321003	8.106	-116.813	22.794	418.810	437.232	0.212	6.389	22.794	***6.437***
2022-08-01 0:45	3321903	8.098	-116.348	22.732	419.881	438.896	0.213	5.732	22.732	***6.378***
2022-08-01 1:00	3322803	8.103	-116.634	22.719	417.996	437.040	0.212	8.952	22.719	***6.381***
2022-08-01 1:15	3323703	8.088	-115.709	22.650	420.430	440.187	0.214	6.222	22.650	***6.353***
2022-08-01 1:30	3324603	8.079	-115.175	22.586	421.206	441.561	0.214	7.050	22.586	***6.318***
2022-08-01 1:45	3325503	8.078	-115.132	22.525	420.564	441.430	0.214	6.099	22.525	***6.272***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-01 2:00	3326403	8.095	-116.093	22.493	417.540	438.536	0.213	10.008	22.493	***6.248***
2022-08-01 2:15	3327303	8.082	-115.333	22.432	418.245	439.821	0.214	6.296	22.432	***6.250***
2022-08-01 2:30	3328203	8.069	-114.563	22.359	418.219	440.436	0.214	6.031	22.359	***6.235***
2022-08-01 2:45	3329103	8.064	-114.245	22.313	417.728	440.327	0.214	5.813	22.313	***6.148***
2022-08-01 3:00	3330003	8.066	-114.322	22.244	417.606	440.807	0.214	8.334	22.244	***6.141***
2022-08-01 3:15	3330903	8.061	-114.002	22.203	416.102	439.583	0.213	6.426	22.203	***6.128***
2022-08-01 3:30	3331803	8.063	-114.098	22.139	417.476	441.612	0.214	6.160	22.139	***6.145***
2022-08-01 3:45	3332703	8.067	-114.343	22.091	414.604	438.992	0.213	6.866	22.091	***6.137***
2022-08-01 4:00	3333603	8.074	-114.722	22.030	413.039	437.880	0.213	22.980	22.030	***6.131***
2022-08-01 4:15	3334503	8.058	-113.759	21.973	413.950	439.353	0.213	7.450	21.973	***6.084***
2022-08-01 4:30	3335403	8.062	-113.947	21.913	411.391	437.163	0.212	5.583	21.913	***6.044***
2022-08-01 4:45	3336303	8.060	-113.821	21.869	412.114	438.325	0.213	8.193	21.869	***6.039***
2022-08-01 5:00	3337203	8.071	-114.419	21.824	411.440	438.007	0.213	11.030	21.824	***6.059***
2022-08-01 5:15	3338103	8.055	-113.497	21.785	410.737	437.605	0.212	6.646	21.785	***6.028***
2022-08-01 5:30	3339003	8.048	-113.084	21.724	412.336	439.855	0.214	6.861	21.724	***5.986***
2022-08-01 5:45	3339903	8.044	-112.844	21.686	411.813	439.638	0.213	5.543	21.686	***5.957***
2022-08-01 6:00	3340803	8.077	-114.756	21.705	407.362	434.725	0.211	14.639	21.705	***5.999***
2022-08-01 6:15	3341703	8.058	-113.661	21.654	408.031	435.890	0.212	5.369	21.654	***5.961***
2022-08-01 6:30	3342603	8.041	-112.674	21.606	408.424	436.737	0.212	5.886	21.606	***5.888***
2022-08-01 6:45	3343503	8.059	-113.673	21.615	406.502	434.596	0.211	5.780	21.615	***5.898***
2022-08-01 7:00	3344403	8.056	-113.499	21.606	406.194	434.349	0.211	6.359	21.606	***5.873***
2022-08-01 7:15	3345303	8.044	-112.805	21.556	407.571	436.271	0.212	5.694	21.556	***5.858***
2022-08-01 7:30	3346203	8.049	-113.089	21.569	407.158	435.709	0.211	5.448	21.569	***5.880***
2022-08-01 7:45	3347103	8.040	-112.562	21.528	406.650	435.536	0.211	5.591	21.528	***5.620***
2022-08-01 8:00	3348003	8.056	-113.473	21.530	406.837	435.715	0.211	7.294	21.530	***5.870***
2022-08-01 8:15	3348903	8.057	-113.542	21.527	407.039	435.957	0.212	4.872	21.527	***5.911***
2022-08-01 8:30	3349803	8.034	-112.216	21.514	407.690	436.773	0.212	5.632	21.514	***5.369***
2022-08-01 8:45	3350703	8.050	-113.120	21.513	408.474	437.623	0.212	5.429	21.513	***5.938***
2022-08-01 9:00	3351603	8.058	-113.566	21.527	408.153	437.155	0.212	7.429	21.527	***5.942***
2022-08-01 9:15	3352503	8.056	-113.518	21.558	407.959	436.670	0.212	5.187	21.558	***5.963***
2022-08-01 9:30	3353403	8.058	-113.599	21.566	408.100	436.746	0.212	5.397	21.566	***6.001***
2022-08-01 9:45	3354303	8.058	-113.604	21.578	408.502	437.071	0.212	4.985	21.578	***6.016***
2022-08-01 10:00	3355203	8.053	-113.339	21.580	412.592	441.432	0.214	6.898	21.580	***6.075***
2022-08-01 10:15	3356103	8.063	-113.974	21.733	410.413	437.730	0.212	4.898	21.733	***6.125***
2022-08-01 10:30	3357003	8.067	-114.183	21.769	412.296	439.410	0.213	5.308	21.769	***6.157***
2022-08-01 10:45	3357903	8.045	-112.982	21.837	419.512	446.489	0.217	4.928	21.837	***6.161***
2022-08-01 11:00	3358803	8.040	-112.681	21.802	426.771	454.534	0.221	6.578	21.802	***6.165***
2022-08-01 11:15	3359703	8.064	-114.088	21.856	425.357	452.533	0.220	5.013	21.856	***6.244***
2022-08-01 11:30	3360603	8.063	-114.043	21.936	426.594	453.109	0.220	5.352	21.936	***6.329***
2022-08-01 11:45	3361503	8.082	-115.168	22.104	424.178	449.012	0.218	5.858	22.104	***6.389***
2022-08-01 12:00	3362403	8.081	-115.201	22.314	426.208	449.257	0.218	11.223	22.314	***6.461***
2022-08-01 12:15	3363303	8.088	-115.662	22.525	426.501	447.660	0.217	6.315	22.525	6.519
2022-08-01 12:30	3364203	8.083	-115.464	22.695	430.622	450.455	0.219	4.874	22.695	6.574
2022-08-01 12:45	3365103	8.087	-115.755	22.901	432.751	450.829	0.219	5.100	22.901	6.592

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-01 13:00	3366003	8.071	-114.913	23.071	436.083	452.761	0.220	10.283	23.071	6.588
2022-08-01 13:15	3366903	8.117	-117.671	23.381	430.372	444.103	0.216	17.804	23.381	6.611
2022-08-01 13:30	3367803	8.141	-119.152	23.702	430.652	441.602	0.214	4.648	23.702	6.773
2022-08-01 13:45	3368703	8.119	-118.015	23.940	438.934	448.001	0.218	5.474	23.940	6.842
2022-08-01 14:00	3369603	8.068	-115.135	23.980	446.402	455.274	0.221	8.678	23.980	6.803
2022-08-01 14:15	3370503	8.085	-116.141	24.167	447.790	455.032	0.221	4.841	24.167	6.689
2022-08-01 14:30	3371403	8.051	-114.253	24.310	456.655	462.756	0.225	4.225	24.310	6.717
2022-08-01 14:45	3372303	8.082	-116.124	24.488	446.982	451.395	0.219	7.571	24.488	6.797
2022-08-01 15:00	3373203	8.062	-115.032	24.689	449.592	452.283	0.220	8.138	24.689	6.677
2022-08-01 15:15	3374103	8.092	-116.758	24.675	452.087	454.912	0.221	4.091	24.675	6.718
2022-08-01 15:30	3375003	8.089	-116.644	24.866	453.542	454.705	0.221	4.831	24.866	6.687
2022-08-01 15:45	3375903	8.097	-117.176	24.948	456.145	456.599	0.222	4.900	24.948	6.792
2022-08-01 16:00	3376803	8.078	-116.127	25.175	458.412	456.885	0.222	10.529	25.175	6.842
2022-08-01 16:15	3377703	8.092	-116.875	25.020	458.405	458.232	0.223	4.352	25.020	6.795
2022-08-01 16:30	3378603	8.087	-116.501	24.762	453.619	455.692	0.221	4.726	24.762	6.569
2022-08-01 16:45	3379503	8.091	-116.699	24.730	448.003	450.325	0.219	6.684	24.730	6.627
2022-08-01 17:00	3380403	8.098	-117.238	24.963	446.614	446.931	0.217	6.938	24.963	6.898
2022-08-01 17:15	3381303	8.121	-118.477	24.864	451.648	452.827	0.220	4.002	24.864	6.716
2022-08-01 17:30	3382203	8.128	-118.876	24.738	447.290	449.535	0.218	4.827	24.738	6.811
2022-08-01 17:45	3383103	8.133	-119.092	24.673	443.221	446.009	0.217	4.305	24.673	6.798
2022-08-01 18:00	3384003	8.081	-116.022	24.425	449.932	454.925	0.221	10.349	24.425	6.802
2022-08-01 18:15	3384903	8.086	-116.265	24.270	449.151	455.499	0.221	4.187	24.270	6.812
2022-08-01 18:30	3385803	8.122	-118.296	24.159	442.969	450.197	0.219	5.050	24.159	6.864
2022-08-01 18:45	3386703	8.130	-118.704	24.052	440.459	448.582	0.218	4.886	24.052	6.885
2022-08-01 19:00	3387603	8.146	-119.574	23.975	436.061	444.766	0.216	6.264	23.975	6.870
2022-08-01 19:15	3388503	8.084	-115.926	23.730	442.316	453.316	0.220	6.557	23.730	6.547
2022-08-01 19:30	3389403	8.090	-116.255	23.697	443.693	455.019	0.221	5.003	23.697	6.581
2022-08-01 19:45	3390303	8.107	-117.221	23.664	441.947	453.523	0.220	5.769	23.664	6.747
2022-08-01 20:00	3391203	8.129	-118.482	23.672	437.363	448.742	0.218	8.622	23.672	6.852
2022-08-01 20:15	3392103	8.156	-120.010	23.626	434.420	446.126	0.217	5.079	23.626	6.814
2022-08-01 20:30	3393003	8.147	-119.431	23.519	434.151	446.793	0.217	6.028	23.519	6.761
2022-08-01 20:45	3393903	8.122	-117.967	23.433	437.502	451.004	0.219	6.007	23.433	6.712
2022-08-01 21:00	3394803	8.137	-118.842	23.368	433.938	447.902	0.218	8.981	23.368	6.735
2022-08-01 21:15	3395703	8.117	-117.614	23.256	434.834	449.816	0.218	5.437	23.256	6.682
2022-08-01 21:30	3396603	8.114	-117.383	23.113	435.564	451.847	0.220	6.051	23.113	6.729
2022-08-01 21:45	3397503	8.130	-118.217	22.878	421.696	439.507	0.213	13.164	22.878	6.791
2022-08-01 22:00	3398403	8.124	-117.862	22.830	428.805	447.348	0.217	11.413	22.830	6.682
2022-08-01 22:15	3399303	8.126	-117.986	22.816	426.802	445.377	0.216	7.229	22.816	6.693
2022-08-01 22:30	3400203	8.126	-117.919	22.744	428.167	447.446	0.217	6.054	22.744	6.672
2022-08-01 22:45	3401103	8.137	-118.551	22.684	426.175	445.900	0.217	6.813	22.684	6.656
2022-08-01 23:00	3402003	8.123	-117.710	22.628	425.689	445.886	0.217	8.540	22.628	6.612
2022-08-01 23:15	3402903	8.111	-117.018	22.564	427.142	447.987	0.218	5.991	22.564	6.574
2022-08-01 23:30	3403803	8.116	-117.261	22.511	426.365	447.649	0.217	7.149	22.511	6.557
2022-08-01 23:45	3404703	8.117	-117.300	22.409	425.908	448.079	0.218	7.175	22.409	6.563

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-02 0:00	3405603	8.119	-117.373	22.296	425.317	448.482	0.218	21.553	22.296	***6.499***
2022-08-02 0:15	3406503	8.121	-117.505	22.310	422.959	445.866	0.217	7.993	22.310	6.522
2022-08-02 0:30	3407403	8.108	-116.732	22.241	424.392	448.000	0.218	9.562	22.241	***6.455***
2022-08-02 0:45	3408303	8.112	-116.949	22.206	423.014	446.860	0.217	7.155	22.206	***6.437***
2022-08-02 1:00	3409203	8.113	-116.973	22.144	422.495	446.868	0.217	11.447	22.144	***6.410***
2022-08-02 1:15	3410103	8.108	-116.668	22.080	422.749	447.718	0.217	9.044	22.080	***6.361***
2022-08-02 1:30	3411003	8.108	-116.632	22.044	421.949	447.196	0.217	7.801	22.044	***6.348***
2022-08-02 1:45	3411903	8.123	-117.466	22.006	417.920	443.265	0.215	8.753	22.006	***6.344***
2022-08-02 2:00	3412803	8.105	-116.434	21.913	422.519	448.991	0.218	13.679	21.913	***6.309***
2022-08-02 2:15	3413703	8.106	-116.439	21.849	420.674	447.612	0.217	7.936	21.849	***6.328***
2022-08-02 2:30	3414603	8.111	-116.706	21.817	417.857	444.904	0.216	8.360	21.817	***6.323***
2022-08-02 2:45	3415503	8.112	-116.770	21.767	417.617	445.104	0.216	6.643	21.767	***6.290***
2022-08-02 3:00	3416403	8.098	-115.943	21.664	418.925	447.433	0.217	8.966	21.664	***6.249***
2022-08-02 3:15	3417303	8.097	-115.855	21.609	418.200	447.163	0.217	7.110	21.609	***6.227***
2022-08-02 3:30	3418203	8.111	-116.615	21.570	415.614	444.749	0.216	6.538	21.570	***6.258***
2022-08-02 3:45	3419103	8.091	-115.442	21.467	415.602	445.681	0.216	6.094	21.467	***6.232***
2022-08-02 4:00	3420003	8.093	-115.550	21.440	417.450	447.907	0.218	19.394	21.440	***6.174***
2022-08-02 4:15	3420903	8.083	-114.961	21.402	415.810	446.495	0.217	5.754	21.402	***6.163***
2022-08-02 4:30	3421803	8.084	-115.035	21.379	416.583	447.534	0.217	7.604	21.379	***6.127***
2022-08-02 4:45	3422703	8.070	-114.212	21.331	417.296	448.747	0.218	5.899	21.331	***6.101***
2022-08-02 5:00	3423603	8.076	-114.555	21.330	415.202	446.496	0.217	9.650	21.330	***6.085***
2022-08-02 5:15	3424503	8.065	-113.883	21.288	416.100	447.853	0.218	6.643	21.288	***6.039***
2022-08-02 5:30	3425403	8.066	-113.924	21.261	415.381	447.328	0.217	6.602	21.261	***6.032***
2022-08-02 5:45	3426303	8.064	-113.831	21.215	415.782	448.179	0.218	5.655	21.215	***6.030***
2022-08-02 6:00	3427203	8.068	-114.026	21.172	415.994	448.806	0.218	6.895	21.172	***6.018***
2022-08-02 6:15	3428103	8.057	-113.378	21.152	415.742	448.718	0.218	6.111	21.152	***6.001***
2022-08-02 6:30	3429003	8.060	-113.559	21.146	415.670	448.695	0.218	5.888	21.146	***6.037***
2022-08-02 6:45	3429903	8.060	-113.535	21.123	415.012	448.199	0.218	5.924	21.123	***6.016***
2022-08-02 7:00	3430803	8.062	-113.645	21.088	415.189	448.714	0.218	6.095	21.088	***6.005***
2022-08-02 7:15	3431703	8.054	-113.165	21.067	415.480	449.230	0.218	5.174	21.067	***5.962***
2022-08-02 7:30	3432603	8.053	-113.137	21.048	414.882	448.760	0.218	6.371	21.048	***5.971***
2022-08-02 7:45	3433503	8.050	-112.922	21.012	414.688	448.882	0.218	5.370	21.012	***5.973***
2022-08-02 8:00	3434403	8.060	-113.521	20.980	414.777	449.271	0.218	15.412	20.980	***5.999***
2022-08-02 8:15	3435303	8.052	-113.022	20.949	415.758	450.629	0.219	5.106	20.949	***6.042***
2022-08-02 8:30	3436203	8.058	-113.354	20.959	415.975	450.765	0.219	5.330	20.959	***6.066***
2022-08-02 8:45	3437103	8.056	-113.280	20.955	415.662	450.465	0.219	5.078	20.955	***6.129***
2022-08-02 9:00	3438003	8.063	-113.680	20.949	416.184	451.090	0.219	6.749	20.949	***6.192***
2022-08-02 9:15	3438903	8.067	-113.864	20.966	415.850	450.569	0.219	5.043	20.966	***6.215***
2022-08-02 9:30	3439803	8.066	-113.819	20.980	417.394	452.107	0.220	4.599	20.980	***6.219***
2022-08-02 9:45	3440703	8.076	-114.388	20.990	416.074	450.589	0.219	5.518	20.990	***6.267***
2022-08-02 10:00	3441603	8.097	-115.604	21.054	412.498	446.121	0.217	12.672	21.054	***6.399***
2022-08-02 10:15	3442503	8.083	-114.844	21.022	417.376	451.698	0.219	4.865	21.022	***6.398***
2022-08-02 10:30	3443403	8.080	-114.651	21.003	417.058	451.529	0.219	4.802	21.003	***6.377***
2022-08-02 10:45	3444303	8.092	-115.378	21.141	416.794	449.959	0.219	6.264	21.141	***6.454***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-02 11:00	3445203	8.095	-115.612	21.248	420.401	452.858	0.220	10.903	21.248	***6.495***
2022-08-02 11:15	3446103	8.098	-115.809	21.351	420.401	451.895	0.220	4.746	21.351	6.527
2022-08-02 11:30	3447003	8.103	-116.129	21.532	422.847	452.845	0.220	4.901	21.532	6.624
2022-08-02 11:45	3447903	8.104	-116.301	21.698	424.212	452.771	0.220	6.629	21.698	6.680
2022-08-02 12:00	3448803	8.110	-116.656	21.751	425.546	453.702	0.220	10.132	21.751	6.661
2022-08-02 12:15	3449703	8.106	-116.429	21.823	427.640	455.267	0.221	12.250	21.823	6.696
2022-08-02 12:30	3450603	8.106	-116.489	21.933	426.980	453.549	0.220	5.623	21.933	6.726
2022-08-02 12:45	3451503	8.112	-116.806	21.929	427.653	454.299	0.221	4.840	21.929	6.602
2022-08-02 13:00	3452403	8.112	-116.806	21.950	427.779	454.244	0.221	5.223	21.950	6.792
2022-08-02 13:15	3453303	8.122	-117.464	22.109	429.814	454.933	0.221	4.950	22.109	6.867
2022-08-02 13:30	3454203	8.117	-117.190	22.195	428.717	452.983	0.220	4.844	22.195	6.866
2022-08-02 13:45	3455103	8.121	-117.450	22.232	433.151	457.328	0.222	4.294	22.232	6.865
2022-08-02 14:00	3456003	8.128	-117.884	22.377	433.905	456.791	0.222	5.234	22.377	6.987
2022-08-02 14:15	3456903	8.169	-120.401	22.752	437.511	457.144	0.222	4.065	22.752	7.070
2022-08-02 14:30	3457803	8.181	-121.171	22.953	437.855	455.675	0.221	3.426	22.953	7.261
2022-08-02 14:45	3458703	8.179	-121.119	23.190	442.690	458.541	0.223	4.033	23.190	7.389
2022-08-02 15:00	3459603	8.117	-117.714	23.415	450.755	464.825	0.226	4.121	23.415	7.338
2022-08-02 15:15	3460503	8.115	-117.562	23.430	450.233	464.150	0.226	3.279	23.430	7.420
2022-08-02 15:30	3461403	8.132	-118.623	23.628	449.846	461.949	0.225	3.975	23.628	7.634
2022-08-02 15:45	3462303	8.101	-116.842	23.638	453.091	465.196	0.226	4.202	23.638	7.599
2022-08-02 16:00	3463203	8.133	-118.730	23.703	452.661	464.159	0.226	4.569	23.703	7.713
2022-08-02 16:15	3464103	8.115	-117.674	23.613	451.321	463.602	0.225	3.457	23.613	7.725
2022-08-02 16:30	3465003	8.135	-118.811	23.571	450.152	462.785	0.225	3.468	23.571	7.693
2022-08-02 16:45	3465903	8.176	-121.167	23.706	452.027	463.482	0.225	3.423	23.706	7.748
2022-08-02 17:00	3466803	8.137	-118.916	23.612	451.591	463.889	0.226	4.472	23.612	7.720
2022-08-02 17:15	3467703	8.191	-122.075	23.763	452.538	463.484	0.225	3.343	23.763	7.650
2022-08-02 17:30	3468603	8.164	-120.463	23.641	451.333	463.357	0.225	3.755	23.641	7.769
2022-08-02 17:45	3469503	8.167	-120.609	23.571	448.830	461.425	0.224	3.514	23.571	7.609
2022-08-02 18:00	3470403	8.196	-122.190	23.429	444.661	458.420	0.223	6.575	23.429	7.609
2022-08-02 18:15	3471303	8.216	-123.315	23.375	443.679	457.888	0.223	3.835	23.375	7.608
2022-08-02 18:30	3472203	8.176	-120.995	23.226	442.330	457.842	0.223	3.298	23.226	7.648
2022-08-02 18:45	3473103	8.167	-120.432	23.089	440.589	457.282	0.222	3.653	23.089	7.683
2022-08-02 19:00	3474003	8.153	-119.572	22.986	438.454	455.993	0.222	3.449	22.986	7.559
2022-08-02 19:15	3474903	8.160	-119.939	22.839	439.071	457.976	0.223	3.571	22.839	7.261
2022-08-02 19:30	3475803	8.145	-119.030	22.788	440.385	459.810	0.223	4.373	22.788	6.974
2022-08-02 19:45	3476703	8.136	-118.539	22.790	440.785	460.215	0.224	4.136	22.790	6.975
2022-08-02 20:00	3477603	8.135	-118.430	22.734	440.145	460.057	0.224	4.411	22.734	6.997
2022-08-02 20:15	3478503	8.138	-118.530	22.523	438.716	460.502	0.224	3.220	22.523	6.805
2022-08-02 20:30	3479403	8.139	-118.606	22.538	438.280	459.904	0.224	4.144	22.538	6.817
2022-08-02 20:45	3480303	8.130	-118.065	22.505	439.601	461.600	0.224	4.185	22.505	6.898
2022-08-02 21:00	3481203	8.118	-117.333	22.429	440.541	463.290	0.225	5.029	22.429	6.912
2022-08-02 21:15	3482103	8.126	-117.769	22.359	439.193	462.525	0.225	4.597	22.359	6.880
2022-08-02 21:30	3483003	8.126	-117.760	22.308	437.994	461.736	0.224	4.405	22.308	6.885
2022-08-02 21:45	3483903	8.125	-117.693	22.264	437.435	461.553	0.224	4.536	22.264	6.899

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-02 22:00	3484803	8.127	-117.798	22.239	436.298	460.587	0.224	7.450	22.239	6.860
2022-08-02 22:15	3485703	8.123	-117.559	22.182	436.817	461.663	0.224	4.293	22.182	6.854
2022-08-02 22:30	3486603	8.118	-117.249	22.142	437.294	462.540	0.225	5.138	22.142	6.872
2022-08-02 22:45	3487503	8.117	-117.195	22.098	435.643	461.203	0.224	6.323	22.098	6.843
2022-08-02 23:00	3488403	8.118	-117.180	22.024	439.294	465.772	0.226	6.233	22.024	6.833
2022-08-02 23:15	3489303	8.111	-116.780	21.989	438.381	465.126	0.226	6.148	21.989	6.814
2022-08-02 23:30	3490203	8.102	-116.272	21.937	439.992	467.330	0.227	5.775	21.937	6.759
2022-08-02 23:45	3491103	8.109	-116.620	21.905	438.245	465.779	0.226	4.536	21.905	6.698
2022-08-03 0:00	3492003	8.120	-117.238	21.879	438.020	465.784	0.226	7.964	21.879	6.690
2022-08-03 0:15	3492903	8.103	-116.246	21.838	442.315	470.745	0.229	6.631	21.838	6.714
2022-08-03 0:30	3493803	8.103	-116.239	21.803	440.718	469.381	0.228	6.070	21.803	6.726
2022-08-03 0:45	3494703	8.115	-116.935	21.754	447.319	476.890	0.232	9.916	21.754	6.713
2022-08-03 1:00	3495603	8.123	-117.390	21.743	438.843	467.957	0.228	7.274	21.743	6.726
2022-08-03 1:15	3496503	8.105	-116.322	21.692	439.385	469.020	0.228	4.869	21.692	6.684
2022-08-03 1:30	3497403	8.106	-116.377	21.655	438.686	468.622	0.228	7.265	21.655	6.692
2022-08-03 1:45	3498303	8.102	-116.131	21.611	441.408	471.960	0.230	15.493	21.611	6.662
2022-08-03 2:00	3499203	8.100	-115.976	21.515	452.413	484.671	0.236	10.425	21.515	6.556
2022-08-03 2:15	3500103	8.085	-115.113	21.470	453.734	486.535	0.237	6.363	21.470	6.563
2022-08-03 2:30	3501003	8.082	-114.884	21.410	458.927	492.715	0.240	5.653	21.410	6.522
2022-08-03 2:45	3501903	8.072	-114.295	21.316	469.807	505.367	0.246	5.332	21.316	***6.472***
2022-08-03 3:00	3502803	8.082	-114.825	21.246	485.888	523.422	0.255	7.261	21.246	***6.476***
2022-08-03 3:15	3503703	8.080	-114.751	21.221	473.703	510.552	0.249	5.302	21.221	***6.472***
2022-08-03 3:30	3504603	8.081	-114.770	21.211	460.399	496.319	0.242	6.195	21.211	***6.453***
2022-08-03 3:45	3505503	8.075	-114.398	21.126	481.222	519.674	0.253	6.124	21.126	***6.370***
2022-08-03 4:00	3506403	8.077	-114.427	20.907	536.318	581.800	0.285	18.687	20.907	***6.246***
2022-08-03 4:15	3507303	8.064	-113.595	20.711	609.768	664.180	0.327	6.377	20.711	***6.227***
2022-08-03 4:30	3508203	8.038	-111.935	20.132	749.165	825.971	0.409	8.002	20.132	***6.077***
2022-08-03 4:45	3509103	8.020	-110.829	19.865	764.338	847.458	0.420	8.683	19.865	***6.096***
2022-08-03 5:00	3510003	8.021	-110.807	19.686	769.427	856.349	0.425	8.760	19.686	***5.920***
2022-08-03 5:15	3510903	8.003	-109.696	19.529	803.098	896.815	0.446	8.896	19.529	***5.850***
2022-08-03 5:30	3511803	8.002	-109.620	19.430	810.945	907.497	0.451	8.655	19.430	***5.908***
2022-08-03 5:45	3512703	8.006	-109.789	19.280	828.536	930.153	0.463	8.784	19.280	***5.856***
2022-08-03 6:00	3513603	8.021	-110.645	19.232	826.005	928.276	0.462	10.203	19.232	***5.870***
2022-08-03 6:15	3514503	8.004	-109.575	19.060	842.880	950.753	0.473	8.860	19.060	***5.913***
2022-08-03 6:30	3515403	8.000	-109.351	19.020	844.668	953.591	0.475	7.686	19.020	***5.955***
2022-08-03 6:45	3516303	7.999	-109.265	18.960	845.345	955.587	0.476	6.906	18.960	***5.822***
2022-08-03 7:00	3517203	8.022	-110.567	18.885	841.554	952.834	0.474	10.181	18.885	***5.895***
2022-08-03 7:15	3518103	8.001	-109.358	18.834	843.453	956.045	0.476	8.340	18.834	***6.045***
2022-08-03 7:30	3519003	8.008	-109.735	18.807	842.127	955.112	0.476	9.164	18.807	***6.112***
2022-08-03 7:45	3519903	8.009	-109.770	18.774	844.902	958.944	0.478	7.965	18.774	***6.178***
2022-08-03 8:00	3520803	8.037	-111.370	18.773	840.100	953.502	0.475	9.041	18.773	***6.199***
2022-08-03 8:15	3521703	8.019	-110.297	18.719	850.984	966.986	0.482	7.780	18.719	***6.181***
2022-08-03 8:30	3522603	8.020	-110.335	18.640	861.892	981.059	0.489	7.611	18.640	***6.246***
2022-08-03 8:45	3523503	8.024	-110.526	18.572	874.189	996.538	0.497	7.497	18.572	***6.219***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-03 9:00	3524403	8.054	-112.219	18.485	878.946	1003.854	0.501	9.013	18.485	***6.359***
2022-08-03 9:15	3525303	8.043	-111.592	18.480	881.914	1007.357	0.503	7.615	18.480	***6.393***
2022-08-03 9:30	3526203	8.056	-112.278	18.464	880.990	1006.668	0.502	8.101	18.464	***6.421***
2022-08-03 9:45	3527103	8.062	-112.629	18.405	888.781	1016.863	0.508	9.091	18.405	***6.463***
2022-08-03 10:00	3528003	8.089	-114.112	18.378	890.596	1019.545	0.509	9.346	18.378	***6.499***
2022-08-03 10:15	3528903	8.082	-113.721	18.337	896.502	1027.232	0.513	9.405	18.337	6.586
2022-08-03 10:30	3529803	8.069	-112.965	18.340	895.702	1026.249	0.512	7.303	18.340	6.626
2022-08-03 10:45	3530703	8.093	-114.353	18.411	890.694	1018.936	0.509	8.832	18.411	6.699
2022-08-03 11:00	3531603	8.112	-115.423	18.425	889.773	1017.563	0.508	8.900	18.425	6.767
2022-08-03 11:15	3532503	8.109	-115.283	18.406	900.854	1030.651	0.515	7.967	18.406	6.891
2022-08-03 11:30	3533403	8.113	-115.530	18.468	896.737	1024.566	0.512	6.841	18.468	6.884
2022-08-03 11:45	3534303	8.122	-116.034	18.526	895.560	1021.935	0.510	8.640	18.526	6.923
2022-08-03 12:00	3535203	8.151	-117.714	18.658	893.136	1016.231	0.507	10.810	18.658	7.041
2022-08-03 12:15	3536103	8.131	-116.582	18.673	903.621	1027.826	0.513	7.404	18.673	7.115
2022-08-03 12:30	3537003	8.144	-117.373	18.752	901.657	1023.844	0.511	6.744	18.752	7.219
2022-08-03 12:45	3537903	8.149	-117.695	18.861	902.791	1022.712	0.511	6.583	18.861	7.270
2022-08-03 13:00	3538803	8.172	-119.028	18.924	905.069	1023.899	0.511	9.330	18.924	7.282
2022-08-03 13:15	3539703	8.164	-118.608	18.987	909.381	1027.381	0.513	10.981	18.987	7.285
2022-08-03 13:30	3540603	8.190	-120.087	19.081	908.627	1024.454	0.512	6.322	19.081	7.447
2022-08-03 13:45	3541503	8.199	-120.611	19.193	907.211	1020.378	0.510	6.747	19.193	7.520
2022-08-03 14:00	3542403	8.223	-122.063	19.387	900.000	1008.070	0.503	31.135	19.387	7.602
2022-08-03 14:15	3543303	8.213	-121.512	19.441	904.151	1011.563	0.505	5.698	19.441	7.629
2022-08-03 14:30	3544203	8.214	-121.627	19.515	908.712	1015.045	0.507	5.694	19.515	7.612
2022-08-03 14:45	3545103	8.241	-123.196	19.662	909.580	1012.836	0.506	6.372	19.662	7.640
2022-08-03 15:00	3546003	8.244	-123.410	19.824	903.437	1002.551	0.500	7.902	19.824	7.833
2022-08-03 15:15	3546903	8.226	-122.423	19.859	905.731	1004.362	0.501	6.179	19.859	7.781
2022-08-03 15:30	3547803	8.254	-124.075	20.016	889.000	982.524	0.490	6.265	20.016	7.906
2022-08-03 15:45	3548703	8.244	-123.556	20.095	880.323	971.320	0.484	5.513	20.095	7.881
2022-08-03 16:00	3549603	8.263	-124.688	20.236	869.129	956.125	0.476	7.118	20.236	7.924
2022-08-03 16:15	3550503	8.233	-122.976	20.231	875.341	963.069	0.480	6.386	20.231	7.860
2022-08-03 16:30	3551403	8.232	-122.941	20.281	866.554	952.389	0.475	9.812	20.281	7.762
2022-08-03 16:45	3552303	8.238	-123.317	20.344	864.201	948.565	0.473	5.431	20.344	7.713
2022-08-03 17:00	3553203	8.250	-124.028	20.466	836.188	915.472	0.455	7.428	20.466	7.724
2022-08-03 17:15	3554103	8.253	-124.254	20.499	833.541	911.932	0.454	6.133	20.499	7.726
2022-08-03 17:30	3555003	8.247	-123.944	20.584	809.878	884.474	0.439	6.233	20.584	7.779
2022-08-03 17:45	3555903	8.221	-122.423	20.539	812.162	887.802	0.441	5.092	20.539	7.679
2022-08-03 18:00	3556803	8.245	-123.851	20.710	750.200	817.149	0.405	6.401	20.710	7.679
2022-08-03 18:15	3557703	8.236	-123.367	20.770	753.973	820.247	0.406	6.294	20.770	7.705
2022-08-03 18:30	3558603	8.239	-123.589	20.895	719.842	781.075	0.386	5.591	20.895	7.695
2022-08-03 18:45	3559503	8.236	-123.575	21.240	599.881	646.300	0.317	4.376	21.240	7.510
2022-08-03 19:00	3560403	8.235	-123.549	21.351	544.704	585.517	0.287	24.823	21.351	7.548
2022-08-03 19:15	3561303	8.229	-123.286	21.484	491.725	527.120	0.257	5.364	21.484	7.460
2022-08-03 19:30	3562203	8.220	-122.783	21.488	476.622	510.895	0.249	4.152	21.488	7.481
2022-08-03 19:45	3563103	8.206	-122.015	21.509	458.448	491.201	0.239	4.938	21.509	7.439

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-03 20:00	3564003	8.213	-122.321	21.411	484.726	520.401	0.254	8.444	21.411	7.422
2022-08-03 20:15	3564903	8.203	-121.803	21.420	460.094	493.865	0.241	4.701	21.420	7.369
2022-08-03 20:30	3565803	8.189	-120.978	21.378	450.422	483.900	0.236	5.446	21.378	7.302
2022-08-03 20:45	3566703	8.190	-121.007	21.280	480.640	517.399	0.252	6.454	21.280	7.274
2022-08-03 21:00	3567603	8.184	-120.668	21.310	446.412	480.261	0.234	8.020	21.310	7.269
2022-08-03 21:15	3568503	8.175	-120.122	21.236	454.105	489.283	0.238	6.053	21.236	7.235
2022-08-03 21:30	3569403	8.177	-120.244	21.261	435.760	469.273	0.228	4.811	21.261	7.222
2022-08-03 21:45	3570303	8.171	-119.889	21.207	440.608	475.023	0.231	5.734	21.207	7.176
2022-08-03 22:00	3571203	8.175	-120.103	21.186	432.077	466.029	0.227	12.663	21.186	7.183
2022-08-03 22:15	3572103	8.164	-119.474	21.140	438.550	473.454	0.230	4.979	21.140	7.122
2022-08-03 22:30	3573003	8.165	-119.500	21.116	431.265	465.824	0.226	7.397	21.116	7.137
2022-08-03 22:45	3573903	8.157	-119.007	21.052	431.186	466.354	0.227	5.742	21.052	7.031
2022-08-03 23:00	3574803	8.162	-119.283	21.017	429.612	464.985	0.226	19.420	21.017	7.028
2022-08-03 23:15	3575703	8.156	-118.947	20.981	429.778	465.509	0.226	6.978	20.981	6.978
2022-08-03 23:30	3576603	8.151	-118.616	20.954	428.827	464.743	0.226	5.119	20.954	6.954
2022-08-03 23:45	3577503	8.146	-118.325	20.874	440.386	478.064	0.233	4.928	20.874	6.898
2022-08-04 0:00	3578403	8.150	-118.515	20.829	446.387	485.027	0.236	12.252	20.829	6.840
2022-08-04 0:15	3579303	8.133	-117.595	20.816	435.912	473.775	0.230	4.611	20.816	6.827
2022-08-04 0:30	3580203	8.133	-117.562	20.734	446.203	485.781	0.236	4.561	20.734	6.781
2022-08-04 0:45	3581103	8.130	-117.357	20.706	442.876	482.440	0.235	5.064	20.706	6.752
2022-08-04 1:00	3582003	8.137	-117.707	20.594	469.503	512.646	0.250	7.624	20.594	6.719
2022-08-04 1:15	3582903	8.129	-117.249	20.548	464.172	507.310	0.247	6.401	20.548	6.680
2022-08-04 1:30	3583803	8.126	-117.049	20.463	479.232	524.700	0.256	4.785	20.463	6.639
2022-08-04 1:45	3584703	8.125	-116.901	20.306	517.588	568.566	0.278	5.754	20.306	6.589
2022-08-04 2:00	3585603	8.132	-117.235	20.158	565.974	623.651	0.306	13.107	20.158	6.558
2022-08-04 2:15	3586503	8.123	-116.704	20.120	590.209	650.879	0.320	4.962	20.120	6.502
2022-08-04 2:30	3587403	8.124	-116.644	19.843	647.904	718.687	0.354	6.656	19.843	6.507
2022-08-04 2:45	3588303	8.123	-116.551	19.734	669.359	744.213	0.367	5.806	19.734	***6.481***
2022-08-04 3:00	3589203	8.114	-116.062	19.738	643.554	715.455	0.353	6.699	19.738	***6.450***
2022-08-04 3:15	3590103	8.107	-115.609	19.560	671.767	749.660	0.370	5.995	19.560	***6.360***
2022-08-04 3:30	3591003	8.105	-115.499	19.547	687.727	767.685	0.379	5.854	19.547	***6.407***
2022-08-04 3:45	3591903	8.102	-115.223	19.331	705.397	791.049	0.391	6.373	19.331	***6.302***
2022-08-04 4:00	3592803	8.117	-116.072	19.281	702.719	788.886	0.390	6.903	19.281	***6.181***
2022-08-04 4:15	3593703	8.096	-114.834	19.136	726.719	818.376	0.405	5.918	19.136	***6.272***
2022-08-04 4:30	3594603	8.095	-114.698	19.019	735.820	830.714	0.411	5.179	19.019	***6.190***
2022-08-04 4:45	3595503	8.091	-114.467	18.953	738.166	834.559	0.413	6.316	18.953	***6.096***
2022-08-04 5:00	3596403	8.106	-115.259	18.878	736.375	833.878	0.413	6.466	18.878	***6.038***
2022-08-04 5:15	3597303	8.086	-114.131	18.808	747.198	847.420	0.420	8.099	18.808	***6.105***
2022-08-04 5:30	3598203	8.079	-113.707	18.732	752.877	855.270	0.424	6.886	18.732	***6.072***
2022-08-04 5:45	3599103	8.091	-114.341	18.645	754.433	858.665	0.426	6.889	18.645	***6.106***
2022-08-04 6:00	3600003	8.104	-115.068	18.580	754.633	860.103	0.427	6.699	18.580	***6.115***
2022-08-04 6:15	3600903	8.095	-114.481	18.496	767.061	875.862	0.435	6.276	18.496	***6.122***
2022-08-04 6:30	3601803	8.092	-114.293	18.437	763.568	873.010	0.433	24.322	18.437	***6.230***
2022-08-04 6:45	3602703	8.088	-114.067	18.372	767.895	879.187	0.436	5.684	18.372	***6.045***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-04 7:00	3603603	8.102	-114.830	18.273	772.538	886.441	0.440	6.398	18.273	***6.257***
2022-08-04 7:15	3604503	8.087	-113.966	18.243	774.881	889.713	0.442	5.081	18.243	***6.253***
2022-08-04 7:30	3605403	8.089	-114.024	18.199	780.771	897.339	0.446	5.516	18.199	***6.198***
2022-08-04 7:45	3606303	8.081	-113.590	18.168	780.767	897.931	0.446	4.742	18.168	***6.141***
2022-08-04 8:00	3607203	8.110	-115.187	18.098	785.070	904.277	0.449	10.960	18.098	***6.239***
2022-08-04 8:15	3608103	8.101	-114.629	18.027	793.521	915.448	0.455	6.055	18.027	***6.296***
2022-08-04 8:30	3609003	8.088	-113.878	17.952	801.757	926.483	0.461	5.471	17.952	***6.257***
2022-08-04 8:45	3609903	8.088	-113.900	17.908	804.171	930.172	0.462	5.384	17.908	***6.204***
2022-08-04 9:00	3610803	8.117	-115.483	17.836	807.303	935.275	0.465	6.420	17.836	***6.350***
2022-08-04 9:15	3611703	8.105	-114.808	17.777	816.300	946.944	0.471	5.925	17.777	***6.409***
2022-08-04 9:30	3612603	8.110	-115.051	17.779	819.923	951.092	0.473	4.956	17.779	6.534
2022-08-04 9:45	3613503	8.110	-115.073	17.736	830.343	964.103	0.480	4.686	17.736	6.605
2022-08-04 10:00	3614403	8.144	-116.935	17.751	825.691	958.390	0.477	6.759	17.751	6.690
2022-08-04 10:15	3615303	8.137	-116.558	17.744	830.128	963.677	0.480	4.581	17.744	6.805
2022-08-04 10:30	3616203	8.147	-117.104	17.700	836.058	971.527	0.484	5.438	17.700	6.889
2022-08-04 10:45	3617103	8.142	-116.813	17.660	841.749	978.996	0.488	5.268	17.660	6.908
2022-08-04 11:00	3618003	8.161	-117.877	17.666	839.947	976.770	0.487	6.427	17.666	6.897
2022-08-04 11:15	3618903	8.146	-116.987	17.585	852.458	993.118	0.495	5.426	17.585	6.910
2022-08-04 11:30	3619803	8.149	-117.152	17.588	852.896	993.558	0.495	4.586	17.588	6.970
2022-08-04 11:45	3620703	8.150	-117.242	17.591	855.590	996.615	0.497	5.138	17.591	7.123
2022-08-04 12:00	3621603	8.179	-118.837	17.599	854.284	994.923	0.496	6.794	17.599	7.124
2022-08-04 12:15	3622503	8.165	-118.103	17.619	856.124	996.629	0.497	4.263	17.619	7.309
2022-08-04 12:30	3623403	8.165	-118.072	17.618	858.443	999.357	0.498	5.101	17.618	7.375
2022-08-04 12:45	3624303	8.167	-118.203	17.580	866.423	1009.498	0.503	4.909	17.580	7.191
2022-08-04 13:00	3625203	8.195	-119.743	17.631	857.905	998.436	0.498	5.201	17.631	7.363
2022-08-04 13:15	3626103	8.215	-120.883	17.608	872.395	1015.806	0.507	4.515	17.608	7.355
2022-08-04 13:30	3627003	8.201	-120.122	17.638	874.021	1017.030	0.507	5.271	17.638	7.571
2022-08-04 13:45	3627903	8.213	-120.838	17.714	870.758	1011.516	0.505	4.459	17.714	7.758
2022-08-04 14:00	3628803	8.235	-122.104	17.913	878.239	1015.734	0.507	6.975	17.913	7.706
2022-08-04 14:15	3629703	8.252	-123.124	18.064	885.305	1020.507	0.509	4.379	18.064	7.875
2022-08-04 14:30	3630603	8.241	-122.588	18.252	889.513	1021.117	0.510	4.522	18.252	8.013
2022-08-04 14:45	3631503	8.247	-123.005	18.396	883.462	1010.990	0.504	4.580	18.396	8.012
2022-08-04 15:00	3632403	8.256	-123.558	18.533	886.974	1011.965	0.505	5.189	18.533	7.818
2022-08-04 15:15	3633303	8.250	-123.267	18.585	894.068	1018.921	0.509	4.368	18.585	7.919
2022-08-04 15:30	3634203	8.251	-123.303	18.616	895.784	1020.169	0.509	4.094	18.616	7.979
2022-08-04 15:45	3635103	8.250	-123.272	18.695	889.651	1011.449	0.505	4.289	18.695	7.985
2022-08-04 16:00	3636003	8.269	-124.412	18.823	891.264	1010.480	0.504	6.077	18.823	7.968
2022-08-04 16:15	3636903	8.262	-124.035	18.827	890.126	1009.108	0.504	5.363	18.827	8.068
2022-08-04 16:30	3637803	8.265	-124.195	18.796	881.763	1000.287	0.499	5.147	18.796	8.004
2022-08-04 16:45	3638703	8.263	-124.087	18.817	876.065	993.385	0.495	4.597	18.817	7.931
2022-08-04 17:00	3639603	8.270	-124.493	18.909	865.524	979.471	0.488	5.356	18.909	8.006
2022-08-04 17:15	3640503	8.274	-124.729	18.908	864.216	978.013	0.488	5.787	18.908	7.989
2022-08-04 17:30	3641403	8.268	-124.466	18.995	859.398	970.741	0.484	4.422	18.995	7.991
2022-08-04 17:45	3642303	8.288	-125.623	19.106	861.693	970.995	0.484	5.255	19.106	8.016

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-04 18:00	3643203	8.283	-125.346	19.141	864.623	973.575	0.485	6.054	19.141	7.962
2022-08-04 18:15	3644103	8.274	-124.850	19.127	860.861	969.634	0.483	4.893	19.127	8.104
2022-08-04 18:30	3645003	8.280	-125.184	19.146	855.228	962.890	0.480	4.633	19.146	8.045
2022-08-04 18:45	3645903	8.286	-125.542	19.157	842.774	948.647	0.472	4.456	19.157	8.071
2022-08-04 19:00	3646803	8.288	-125.663	19.180	829.380	933.105	0.464	5.204	19.180	8.103
2022-08-04 19:15	3647703	8.278	-125.034	19.100	831.963	937.621	0.467	5.326	19.100	7.984
2022-08-04 19:30	3648603	8.279	-125.062	19.058	834.709	941.562	0.469	4.876	19.058	7.863
2022-08-04 19:45	3649503	8.264	-124.228	19.006	833.591	941.365	0.469	5.296	19.006	7.797
2022-08-04 20:00	3650403	8.274	-124.774	18.981	824.705	931.825	0.464	5.646	18.981	7.735
2022-08-04 20:15	3651303	8.258	-123.870	18.978	822.668	929.596	0.462	4.392	18.978	7.704
2022-08-04 20:30	3652203	8.245	-123.177	19.058	799.099	901.402	0.448	4.781	19.058	7.651
2022-08-04 20:45	3653103	8.252	-123.532	18.960	795.829	899.609	0.447	4.909	18.960	7.460
2022-08-04 21:00	3654003	8.252	-123.541	18.945	780.934	883.069	0.438	5.792	18.945	7.298
2022-08-04 21:15	3654903	8.234	-122.497	18.970	787.143	889.605	0.442	4.995	18.970	7.368
2022-08-04 21:30	3655803	8.229	-122.309	19.100	760.485	857.068	0.425	5.191	19.100	7.168
2022-08-04 21:45	3656703	8.229	-122.223	18.997	762.569	861.326	0.427	4.810	18.997	7.306
2022-08-04 22:00	3657603	8.221	-121.827	19.012	719.527	812.455	0.402	5.987	19.012	7.213
2022-08-04 22:15	3658503	8.206	-120.938	18.932	757.494	856.790	0.425	5.493	18.932	7.153
2022-08-04 22:30	3659403	8.193	-120.182	18.924	757.151	856.556	0.425	5.436	18.924	7.052
2022-08-04 22:45	3660303	8.199	-120.478	18.755	760.282	863.243	0.428	5.524	18.755	6.989
2022-08-04 23:00	3661203	8.196	-120.325	18.865	725.442	821.723	0.407	5.809	18.865	6.970
2022-08-04 23:15	3662103	8.199	-120.456	18.726	759.654	863.076	0.428	5.473	18.726	7.013
2022-08-04 23:30	3663003	8.194	-120.115	18.578	766.800	874.004	0.434	5.511	18.578	6.794
2022-08-04 23:45	3663903	8.179	-119.257	18.633	756.899	861.689	0.427	4.872	18.633	6.870
2022-08-05 0:00	3664803	8.196	-120.225	18.637	723.462	823.559	0.408	6.525	18.637	6.916
2022-08-05 0:15	3665703	8.177	-119.162	18.596	754.732	859.914	0.426	5.798	18.596	6.889
2022-08-05 0:30	3666603	8.177	-119.112	18.462	762.137	870.896	0.432	5.299	18.462	6.677
2022-08-05 0:45	3667503	8.159	-118.120	18.493	745.297	851.074	0.422	5.036	18.493	6.732
2022-08-05 1:00	3668403	8.182	-119.348	18.338	757.802	868.287	0.431	5.962	18.338	6.751
2022-08-05 1:15	3669303	8.158	-117.991	18.318	764.508	876.347	0.435	5.321	18.318	6.792
2022-08-05 1:30	3670203	8.154	-117.726	18.313	757.141	867.999	0.431	4.455	18.313	6.677
2022-08-05 1:45	3671103	8.138	-116.799	18.254	758.848	871.090	0.432	4.248	18.254	6.537
2022-08-05 2:00	3672003	8.164	-118.272	18.196	742.413	853.299	0.423	7.603	18.196	6.617
2022-08-05 2:15	3672903	8.142	-117.011	18.121	759.922	874.868	0.434	5.147	18.121	6.636
2022-08-05 2:30	3673803	8.132	-116.420	18.068	768.374	885.627	0.440	5.215	18.068	***6.464***
2022-08-05 2:45	3674703	8.128	-116.181	18.025	768.089	886.151	0.440	5.585	18.025	***6.458***
2022-08-05 3:00	3675603	8.143	-116.973	17.964	759.968	877.963	0.436	6.785	17.964	6.609
2022-08-05 3:15	3676503	8.134	-116.496	17.946	757.205	875.103	0.434	5.345	17.946	6.581
2022-08-05 3:30	3677403	8.131	-116.265	17.801	781.032	905.536	0.450	5.687	17.801	6.512
2022-08-05 3:45	3678303	8.118	-115.521	17.748	784.509	910.643	0.452	4.790	17.748	***6.451***
2022-08-05 4:00	3679203	8.145	-116.980	17.658	787.695	916.173	0.455	6.399	17.658	***6.407***
2022-08-05 4:15	3680103	8.120	-115.569	17.596	795.029	925.969	0.460	5.503	17.596	***6.340***
2022-08-05 4:30	3681003	8.115	-115.256	17.520	801.912	935.580	0.465	6.697	17.520	***6.342***
2022-08-05 4:45	3681903	8.115	-115.211	17.438	805.342	941.300	0.468	6.863	17.438	***6.410***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-05 5:00	3682803	8.124	-115.702	17.378	805.093	942.270	0.469	6.698	17.378	***6.370***
2022-08-05 5:15	3683703	8.109	-114.865	17.356	805.566	943.291	0.469	5.631	17.356	6.527
2022-08-05 5:30	3684603	8.114	-115.094	17.259	820.458	962.811	0.479	6.436	17.259	***6.166***
2022-08-05 5:45	3685504	8.110	-114.799	17.169	835.106	981.978	0.489	5.958	17.169	***6.436***
2022-08-05 6:00	3686404	8.129	-115.879	17.128	827.526	973.967	0.485	6.335	17.128	***6.353***
2022-08-05 6:15	3687304	8.114	-114.996	17.060	836.591	986.144	0.491	5.242	17.060	6.554
2022-08-05 6:30	3688204	8.116	-115.070	17.011	839.196	990.302	0.493	5.991	17.011	6.561
2022-08-05 6:45	3689104	8.106	-114.524	16.944	846.841	1000.842	0.499	5.280	16.944	6.544
2022-08-05 7:00	3690004	8.133	-116.012	16.872	854.348	1011.357	0.504	5.783	16.872	6.576
2022-08-05 7:15	3690904	8.120	-115.263	16.838	856.335	1014.495	0.506	5.444	16.838	6.615
2022-08-05 7:30	3691804	8.112	-114.799	16.836	855.634	1013.701	0.505	5.270	16.836	6.666
2022-08-05 7:45	3692704	8.103	-114.295	16.773	865.921	1027.354	0.512	5.510	16.773	6.565
2022-08-05 8:00	3693604	8.139	-116.270	16.745	866.165	1028.307	0.513	9.489	16.745	6.704
2022-08-05 8:15	3694504	8.123	-115.347	16.721	873.340	1037.382	0.518	4.886	16.721	6.704
2022-08-05 8:30	3695404	8.119	-115.113	16.672	876.823	1042.677	0.520	4.841	16.672	6.779
2022-08-05 8:45	3696304	8.125	-115.445	16.669	876.746	1042.647	0.520	4.901	16.669	6.862
2022-08-05 9:00	3697204	8.149	-116.839	16.692	877.185	1042.630	0.520	5.949	16.692	6.952
2022-08-05 9:15	3698104	8.147	-116.708	16.686	880.720	1046.981	0.523	4.509	16.686	6.991
2022-08-05 9:30	3699004	8.135	-116.022	16.674	885.577	1053.042	0.526	4.661	16.674	6.986
2022-08-05 9:45	3699904	8.140	-116.277	16.680	886.704	1054.245	0.526	5.605	16.680	7.033
2022-08-05 10:00	3700804	8.180	-118.542	16.687	885.980	1053.214	0.526	6.437	16.687	7.134
2022-08-05 10:15	3701704	8.165	-117.719	16.661	891.885	1060.849	0.530	6.119	16.661	7.135
2022-08-05 10:30	3702604	8.175	-118.237	16.674	896.679	1066.249	0.533	5.580	16.674	7.240
2022-08-05 10:45	3703504	8.169	-117.910	16.708	900.674	1070.158	0.535	5.855	16.708	7.382
2022-08-05 11:00	3704404	8.192	-119.269	16.809	895.032	1061.027	0.530	7.929	16.809	7.499
2022-08-05 11:15	3705304	8.186	-118.954	16.816	906.365	1074.286	0.537	5.503	16.816	7.519
2022-08-05 11:30	3706204	8.212	-120.449	16.955	899.862	1063.232	0.531	5.268	16.955	7.698
2022-08-05 11:45	3707104	8.195	-119.486	17.010	907.765	1071.235	0.535	5.063	17.010	7.733
2022-08-05 12:00	3708004	8.232	-121.641	17.137	901.233	1060.505	0.530	6.542	17.137	7.790
2022-08-05 12:15	3708904	8.223	-121.124	17.143	912.546	1073.667	0.537	4.408	17.143	7.707
2022-08-05 12:30	3709804	8.221	-121.036	17.231	913.230	1072.355	0.536	4.753	17.231	7.881
2022-08-05 12:45	3710704	8.220	-121.059	17.342	916.570	1073.604	0.537	4.871	17.342	7.916
2022-08-05 13:00	3711604	8.260	-123.379	17.597	915.569	1066.358	0.533	5.238	17.597	8.042
2022-08-05 13:15	3712504	8.247	-122.688	17.712	932.021	1082.729	0.542	5.209	17.712	8.006
2022-08-05 13:30	3713404	8.239	-122.337	17.865	931.258	1078.194	0.539	4.668	17.865	8.033
2022-08-05 13:45	3714304	8.268	-124.006	18.020	936.868	1080.988	0.541	4.489	18.020	8.319
2022-08-05 14:00	3715204	8.282	-124.910	18.295	945.743	1084.650	0.543	6.304	18.295	8.299
2022-08-05 14:15	3716104	8.282	-125.000	18.434	957.057	1094.293	0.548	4.639	18.434	8.308
2022-08-05 14:30	3717004	8.267	-124.226	18.630	960.983	1094.100	0.548	4.115	18.630	8.368
2022-08-05 14:45	3717904	8.295	-125.892	18.805	971.130	1101.463	0.552	4.033	18.805	8.342
2022-08-05 15:00	3718804	8.304	-126.481	19.063	968.936	1092.872	0.547	9.727	19.063	8.431
2022-08-05 15:15	3719704	8.305	-126.629	19.241	980.213	1101.354	0.552	5.244	19.241	8.473
2022-08-05 15:30	3720604	8.318	-127.411	19.417	986.240	1103.956	0.553	5.170	19.417	8.523
2022-08-05 15:45	3721504	8.288	-125.732	19.400	993.612	1112.625	0.558	4.676	19.400	8.308

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-05 16:00	3722404	8.315	-127.349	19.614	989.713	1103.203	0.553	6.583	19.614	8.452
2022-08-05 16:15	3723304	8.308	-126.967	19.653	989.029	1101.532	0.552	8.350	19.653	8.477
2022-08-05 16:30	3724204	8.312	-127.230	19.757	992.864	1103.359	0.553	5.169	19.757	8.484
2022-08-05 16:45	3725104	8.330	-128.298	19.791	996.273	1106.341	0.555	15.768	19.791	8.428
2022-08-05 17:00	3726004	8.316	-127.542	19.930	995.456	1102.188	0.552	5.608	19.930	8.528
2022-08-05 17:15	3726904	8.305	-126.922	19.975	1000.045	1106.215	0.554	5.445	19.975	8.599
2022-08-05 17:30	3727804	8.314	-127.509	20.048	1002.778	1107.533	0.555	4.016	20.048	8.465
2022-08-05 17:45	3728704	8.303	-126.865	20.112	1004.469	1107.894	0.555	4.679	20.112	8.362
2022-08-05 18:00	3729604	8.306	-127.058	20.136	1002.688	1105.379	0.554	5.946	20.136	8.275
2022-08-05 18:15	3730504	8.302	-126.791	20.059	1003.352	1107.898	0.555	5.258	20.059	8.180
2022-08-05 18:30	3731404	8.291	-126.178	20.034	1004.953	1110.253	0.557	4.461	20.034	8.093
2022-08-05 18:45	3732304	8.288	-125.980	20.000	1003.542	1109.497	0.556	4.787	20.000	8.160
2022-08-05 19:00	3733204	8.287	-125.945	19.950	996.198	1102.552	0.553	5.400	19.950	8.111
2022-08-05 19:15	3734104	8.280	-125.477	19.852	997.104	1105.827	0.554	5.245	19.852	8.026
2022-08-05 19:30	3735004	8.272	-124.958	19.741	999.328	1110.926	0.557	4.764	19.741	7.927
2022-08-05 19:45	3735904	8.271	-124.881	19.698	995.173	1107.307	0.555	5.582	19.698	7.920
2022-08-05 20:00	3736804	8.286	-125.754	19.674	987.464	1099.287	0.551	6.607	19.674	7.844
2022-08-05 20:15	3737704	8.264	-124.464	19.602	989.504	1103.256	0.553	5.313	19.602	7.851
2022-08-05 20:30	3738604	8.268	-124.662	19.551	987.738	1102.475	0.552	5.771	19.551	7.740
2022-08-05 20:45	3739504	8.253	-123.804	19.486	989.937	1106.470	0.555	5.228	19.486	7.650
2022-08-05 21:00	3740404	8.265	-124.471	19.421	982.034	1099.158	0.551	6.571	19.421	7.614
2022-08-05 21:15	3741304	8.261	-124.195	19.298	989.177	1110.072	0.556	5.792	19.298	7.605
2022-08-05 21:30	3742204	8.253	-123.715	19.246	980.491	1101.557	0.552	5.755	19.246	7.602
2022-08-05 21:45	3743104	8.244	-123.181	19.192	977.864	1099.867	0.551	5.078	19.192	7.504
2022-08-05 22:00	3744004	8.250	-123.496	19.124	970.497	1093.176	0.547	7.662	19.124	7.446
2022-08-05 22:15	3744904	8.239	-122.819	19.058	972.175	1096.641	0.549	7.219	19.058	7.374
2022-08-05 22:30	3745804	8.228	-122.163	18.990	970.414	1096.254	0.549	6.181	18.990	7.320
2022-08-05 22:45	3746704	8.220	-121.698	18.906	970.384	1098.205	0.550	5.686	18.906	7.251
2022-08-05 23:00	3747604	8.238	-122.683	18.800	967.109	1097.021	0.549	6.312	18.800	7.259
2022-08-05 23:15	3748504	8.219	-121.570	18.747	968.437	1099.790	0.551	6.630	18.747	7.258
2022-08-05 23:30	3749404	8.217	-121.436	18.663	966.404	1099.470	0.551	5.718	18.663	7.116
2022-08-05 23:45	3750304	8.203	-120.618	18.588	966.215	1101.067	0.551	6.537	18.588	7.081
2022-08-06 0:00	3751204	8.219	-121.465	18.516	954.691	1089.635	0.545	8.450	18.516	7.114
2022-08-06 0:15	3752104	8.200	-120.397	18.449	956.338	1093.112	0.547	5.356	18.449	7.079
2022-08-06 0:30	3753004	8.200	-120.380	18.389	950.717	1088.104	0.545	9.647	18.389	7.154
2022-08-06 0:45	3753904	8.189	-119.691	18.274	955.707	1096.590	0.549	15.042	18.274	6.944
2022-08-06 1:00	3754804	8.204	-120.523	18.189	953.422	1096.010	0.549	8.190	18.189	6.962
2022-08-06 1:15	3755704	8.193	-119.841	18.092	955.503	1100.737	0.551	6.694	18.092	6.902
2022-08-06 1:30	3756604	8.180	-119.112	18.050	952.336	1098.105	0.550	5.876	18.050	6.848
2022-08-06 1:45	3757504	8.170	-118.489	17.937	953.367	1102.030	0.552	6.009	17.937	6.830
2022-08-06 2:00	3758404	8.183	-119.176	17.876	947.014	1096.159	0.549	7.732	17.876	6.817
2022-08-06 2:15	3759304	8.169	-118.339	17.754	950.768	1103.495	0.552	6.148	17.754	6.735
2022-08-06 2:30	3760204	8.168	-118.248	17.626	952.686	1108.852	0.555	7.393	17.626	6.776
2022-08-06 2:45	3761104	8.160	-117.760	17.532	953.720	1112.381	0.557	6.998	17.532	6.790

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-06 3:00	3762004	8.167	-118.146	17.456	945.424	1104.584	0.553	6.711	17.456	6.761
2022-08-06 3:15	3762904	8.154	-117.357	17.395	951.949	1113.713	0.558	5.660	17.395	6.786
2022-08-06 3:30	3763804	8.146	-116.887	17.341	946.026	1108.125	0.555	5.575	17.341	6.704
2022-08-06 3:45	3764704	8.154	-117.331	17.234	944.115	1108.557	0.555	6.928	17.234	6.713
2022-08-06 4:00	3765604	8.158	-117.493	17.180	939.642	1104.636	0.553	8.486	17.180	6.670
2022-08-06 4:15	3766504	8.146	-116.775	17.039	949.783	1120.091	0.561	5.993	17.039	6.606
2022-08-06 4:30	3767404	8.146	-116.742	16.927	947.773	1120.546	0.561	6.378	16.927	6.604
2022-08-06 4:45	3768304	8.145	-116.651	16.830	945.914	1120.815	0.561	6.144	16.830	6.712
2022-08-06 5:00	3769204	8.156	-117.207	16.721	944.083	1121.418	0.561	6.986	16.721	6.750
2022-08-06 5:15	3770104	8.146	-116.620	16.669	942.721	1121.111	0.561	6.836	16.669	6.700
2022-08-06 5:30	3771004	8.148	-116.682	16.538	947.927	1130.669	0.566	6.345	16.538	6.682
2022-08-06 5:45	3771904	8.141	-116.286	16.500	946.481	1129.930	0.566	6.367	16.500	6.586
2022-08-06 6:00	3772804	8.167	-117.717	16.379	944.459	1130.619	0.566	7.587	16.379	6.653
2022-08-06 6:15	3773704	8.146	-116.506	16.282	952.352	1142.605	0.572	5.802	16.282	6.632
2022-08-06 6:30	3774604	8.144	-116.327	16.246	949.674	1140.330	0.571	6.133	16.246	6.755
2022-08-06 6:45	3775504	8.135	-115.831	16.176	949.484	1141.950	0.572	5.654	16.176	6.748
2022-08-06 7:00	3776404	8.159	-117.135	16.075	947.688	1142.435	0.572	8.103	16.075	6.804
2022-08-06 7:15	3777304	8.147	-116.451	16.030	952.099	1148.957	0.575	5.603	16.030	6.860
2022-08-06 7:30	3778204	8.143	-116.191	16.018	951.020	1147.968	0.575	5.938	16.018	6.844
2022-08-06 7:45	3779104	8.141	-116.057	15.959	953.129	1152.065	0.577	5.581	15.959	6.768
2022-08-06 8:00	3780004	8.166	-117.466	15.951	950.337	1148.915	0.575	7.881	15.951	6.808
2022-08-06 8:15	3780904	8.150	-116.541	15.893	953.641	1154.449	0.578	5.738	15.893	6.667
2022-08-06 8:30	3781804	8.148	-116.422	15.862	956.148	1158.313	0.580	5.977	15.862	6.749
2022-08-06 8:45	3782704	8.154	-116.761	15.865	955.422	1157.362	0.580	5.414	15.865	7.010
2022-08-06 9:00	3783604	8.167	-117.486	15.871	954.270	1155.799	0.579	6.511	15.871	7.028
2022-08-06 9:15	3784504	8.176	-117.972	15.814	963.973	1169.106	0.586	5.619	15.814	7.071
2022-08-06 9:30	3785404	8.171	-117.660	15.792	968.266	1174.898	0.589	7.006	15.792	7.177
2022-08-06 9:45	3786304	8.171	-117.645	15.771	971.507	1179.412	0.591	5.362	15.771	7.220
2022-08-06 10:00	3787204	8.211	-119.867	15.733	973.113	1182.409	0.593	7.049	15.733	7.325
2022-08-06 10:15	3788104	8.184	-118.344	15.721	973.256	1182.911	0.593	5.181	15.721	7.341
2022-08-06 10:30	3789004	8.185	-118.430	15.733	970.364	1179.053	0.591	5.529	15.733	7.350
2022-08-06 10:45	3789904	8.190	-118.721	15.751	965.592	1172.769	0.588	4.754	15.751	7.408
2022-08-06 11:00	3790804	8.211	-119.882	15.772	963.787	1169.993	0.586	7.874	15.772	7.462
2022-08-06 11:15	3791704	8.202	-119.390	15.774	969.174	1176.501	0.590	5.806	15.774	7.483
2022-08-06 11:30	3792604	8.219	-120.342	15.843	970.571	1176.300	0.590	6.533	15.843	7.559
2022-08-06 11:45	3793504	8.214	-120.146	15.928	965.622	1168.009	0.585	5.745	15.928	7.713
2022-08-06 12:00	3794404	8.247	-122.044	16.068	959.117	1156.408	0.579	7.940	16.068	7.771
2022-08-06 12:15	3795304	8.227	-120.912	16.122	960.877	1157.086	0.580	5.052	16.122	7.880
2022-08-06 12:30	3796204	8.233	-121.300	16.265	963.888	1156.903	0.580	4.340	16.265	7.894
2022-08-06 12:45	3797104	8.253	-122.519	16.390	974.168	1165.892	0.584	4.696	16.390	8.020
2022-08-06 13:00	3798004	8.276	-123.827	16.559	981.448	1170.088	0.587	8.251	16.559	8.206
2022-08-06 13:15	3798904	8.267	-123.420	16.681	987.205	1173.705	0.589	5.332	16.681	8.316
2022-08-06 13:30	3799804	8.269	-123.563	16.829	994.595	1178.528	0.591	4.614	16.829	8.303
2022-08-06 13:45	3800704	8.286	-124.588	16.986	1002.399	1183.567	0.594	5.491	16.986	8.504

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-06 14:00	3801604	8.307	-125.899	17.304	1007.772	1181.425	0.593	6.073	17.304	8.608
2022-08-06 14:15	3802504	8.299	-125.506	17.454	1008.703	1178.565	0.592	5.088	17.454	8.762
2022-08-06 14:30	3803404	8.304	-125.899	17.656	1015.184	1180.819	0.593	4.710	17.656	8.663
2022-08-06 14:45	3804304	8.306	-126.090	17.826	1019.748	1181.668	0.593	4.690	17.826	8.713
2022-08-06 15:00	3805204	8.320	-126.965	18.047	1027.942	1185.357	0.595	6.196	18.047	8.750
2022-08-06 15:15	3806104	8.322	-127.079	18.131	1028.604	1183.932	0.595	4.921	18.131	8.785
2022-08-06 15:30	3807004	8.323	-127.234	18.311	1032.285	1183.489	0.594	4.661	18.311	8.764
2022-08-06 15:45	3807904	8.329	-127.611	18.433	1039.095	1188.126	0.597	4.933	18.433	8.744
2022-08-06 16:00	3808804	8.340	-128.324	18.609	1048.387	1194.165	0.600	6.582	18.609	8.754
2022-08-06 16:15	3809704	8.336	-128.164	18.745	1047.241	1189.341	0.598	4.572	18.745	8.867
2022-08-06 16:30	3810604	8.340	-128.477	18.897	1050.014	1188.557	0.597	4.846	18.897	8.961
2022-08-06 16:45	3811504	8.342	-128.627	18.990	1054.123	1190.830	0.599	4.753	18.990	8.893
2022-08-06 17:00	3812404	8.346	-128.851	19.099	1058.761	1193.247	0.600	6.253	19.099	8.830
2022-08-06 17:15	3813304	8.347	-128.958	19.165	1058.499	1191.273	0.599	4.758	19.165	8.797
2022-08-06 17:30	3814204	8.346	-128.930	19.186	1062.549	1195.288	0.601	5.325	19.186	8.730
2022-08-06 17:45	3815104	8.338	-128.462	19.129	1066.475	1201.159	0.604	5.904	19.129	8.554
2022-08-06 18:00	3816004	8.351	-129.151	19.147	1061.981	1195.635	0.601	6.577	19.147	8.597
2022-08-06 18:15	3816904	8.343	-128.732	19.106	1065.619	1200.800	0.604	5.020	19.106	8.585
2022-08-06 18:30	3817804	8.349	-129.032	19.075	1068.036	1204.318	0.606	5.517	19.075	8.524
2022-08-06 18:45	3818704	8.331	-128.021	19.035	1071.183	1208.913	0.608	5.413	19.035	8.379
2022-08-06 19:00	3819604	8.345	-128.784	18.967	1076.290	1216.462	0.612	6.166	18.967	8.437
2022-08-06 19:15	3820504	8.331	-127.971	18.963	1074.233	1214.240	0.611	5.468	18.963	8.509
2022-08-06 19:30	3821404	8.333	-128.040	18.885	1075.132	1217.308	0.612	6.247	18.885	8.461
2022-08-06 19:45	3822304	8.326	-127.623	18.851	1078.068	1221.545	0.615	5.401	18.851	8.368
2022-08-06 20:00	3823204	8.348	-128.834	18.813	1069.871	1213.253	0.610	8.096	18.813	8.270
2022-08-06 20:15	3824104	8.323	-127.413	18.752	1070.959	1216.074	0.612	5.315	18.752	8.222
2022-08-06 20:30	3825004	8.318	-127.146	18.722	1070.786	1216.687	0.612	5.448	18.722	8.097
2022-08-06 20:45	3825904	8.325	-127.478	18.669	1073.244	1220.886	0.614	6.030	18.669	8.105
2022-08-06 21:00	3826804	8.319	-127.161	18.595	1069.859	1218.974	0.613	6.396	18.595	7.928
2022-08-06 21:15	3827704	8.311	-126.657	18.568	1070.521	1220.467	0.614	5.909	18.568	7.870
2022-08-06 21:30	3828604	8.302	-126.173	18.552	1068.400	1218.455	0.613	5.261	18.552	7.756
2022-08-06 21:45	3829504	8.292	-125.580	18.495	1061.566	1212.179	0.610	5.740	18.495	7.697
2022-08-06 22:00	3830404	8.306	-126.357	18.471	1051.756	1201.602	0.604	6.968	18.471	7.692
2022-08-06 22:15	3831304	8.280	-124.836	18.395	1051.966	1203.845	0.605	6.255	18.395	7.366
2022-08-06 22:30	3832204	8.269	-124.223	18.309	1050.152	1204.018	0.605	6.138	18.309	7.438
2022-08-06 22:45	3833104	8.269	-124.214	18.287	1047.830	1201.931	0.604	5.692	18.287	7.457
2022-08-06 23:00	3834004	8.271	-124.309	18.232	1044.799	1199.912	0.603	7.749	18.232	7.307
2022-08-06 23:15	3834904	8.256	-123.432	18.193	1044.031	1200.058	0.603	5.586	18.193	7.253
2022-08-06 23:30	3835804	8.255	-123.360	18.184	1033.150	1187.783	0.597	8.322	18.184	7.301
2022-08-06 23:45	3836704	8.252	-123.143	18.105	1032.182	1188.742	0.597	7.175	18.105	7.139
2022-08-07 0:00	3837604	8.267	-123.959	18.059	1031.150	1188.758	0.597	8.752	18.059	7.172
2022-08-07 0:15	3838504	8.255	-123.329	18.039	1030.328	1188.328	0.597	6.429	18.039	7.151
2022-08-07 0:30	3839404	8.235	-122.178	18.001	1031.842	1191.063	0.598	7.026	18.001	7.052
2022-08-07 0:45	3840304	8.245	-122.714	17.954	1025.858	1185.389	0.595	6.200	17.954	7.071

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-07 1:00	3841204	8.234	-122.070	17.892	1025.882	1187.041	0.596	8.131	17.892	6.986
2022-08-07 1:15	3842104	8.232	-121.911	17.831	1027.562	1190.576	0.598	6.294	17.831	6.858
2022-08-07 1:30	3843004	8.230	-121.808	17.815	1025.060	1188.118	0.597	6.248	17.815	6.830
2022-08-07 1:45	3843904	8.215	-120.924	17.742	1025.119	1190.087	0.598	6.023	17.742	6.605
2022-08-07 2:00	3844804	8.230	-121.732	17.646	1025.863	1193.499	0.599	9.393	17.646	***6.484***
2022-08-07 2:15	3845704	8.215	-120.902	17.630	1016.662	1183.222	0.594	6.556	17.630	6.808
2022-08-07 2:30	3846604	8.210	-120.566	17.561	1016.577	1184.951	0.595	6.083	17.561	6.944
2022-08-07 2:45	3847504	8.206	-120.320	17.506	1012.493	1181.624	0.593	5.504	17.506	6.742
2022-08-07 3:00	3848404	8.201	-119.998	17.423	1024.379	1197.708	0.602	7.283	17.423	***6.401***
2022-08-07 3:15	3849304	8.185	-119.097	17.309	1022.049	1198.051	0.602	11.579	17.309	6.507
2022-08-07 3:30	3850204	8.182	-118.866	17.237	1024.244	1202.555	0.604	6.869	17.237	6.676
2022-08-07 3:45	3851104	8.171	-118.246	17.161	1022.871	1202.980	0.604	7.064	17.161	6.564
2022-08-07 4:00	3852004	8.189	-119.221	17.052	1023.377	1206.549	0.606	8.111	17.052	6.626
2022-08-07 4:15	3852904	8.169	-118.048	16.999	1030.280	1216.125	0.611	6.082	16.999	6.636
2022-08-07 4:30	3853804	8.163	-117.700	16.918	1026.987	1214.467	0.610	6.592	16.918	6.608
2022-08-07 4:45	3854704	8.156	-117.238	16.834	1029.025	1219.182	0.613	6.298	16.834	6.582
2022-08-07 5:00	3855604	8.178	-118.468	16.724	1023.852	1216.074	0.611	6.978	16.724	6.599
2022-08-07 5:15	3856504	8.159	-117.390	16.717	1020.826	1212.690	0.609	5.563	16.717	6.730
2022-08-07 5:30	3857404	8.158	-117.276	16.593	1025.840	1222.081	0.614	6.243	16.593	6.553
2022-08-07 5:45	3858304	8.154	-117.018	16.547	1023.594	1220.667	0.613	6.258	16.547	6.635
2022-08-07 6:00	3859204	8.167	-117.733	16.492	1021.786	1220.035	0.613	6.873	16.492	6.620
2022-08-07 6:15	3860104	8.152	-116.851	16.427	1022.745	1222.994	0.614	5.795	16.427	6.535
2022-08-07 6:30	3861004	8.151	-116.796	16.345	1024.195	1227.027	0.616	6.608	16.345	6.640
2022-08-07 6:45	3861904	8.144	-116.379	16.279	1022.776	1227.178	0.616	5.936	16.279	6.599
2022-08-07 7:00	3862804	8.157	-117.064	16.231	1019.113	1224.145	0.615	6.884	16.231	6.722
2022-08-07 7:15	3863704	8.139	-116.069	16.206	1020.501	1226.523	0.616	5.296	16.206	6.737
2022-08-07 7:30	3864604	8.137	-115.950	16.180	1021.925	1228.960	0.617	6.275	16.180	6.648
2022-08-07 7:45	3865504	8.137	-115.921	16.123	1024.192	1233.312	0.620	5.986	16.123	6.751
2022-08-07 8:00	3866404	8.165	-117.486	16.121	1019.171	1227.315	0.616	9.634	16.121	6.755
2022-08-07 8:15	3867304	8.137	-115.921	16.074	1022.241	1232.348	0.619	5.497	16.074	6.847
2022-08-07 8:30	3868204	8.135	-115.774	16.047	1024.310	1235.606	0.621	7.037	16.047	6.814
2022-08-07 8:45	3869104	8.162	-117.285	16.010	1026.112	1238.838	0.622	6.845	16.010	6.839
2022-08-07 9:00	3870004	8.168	-117.595	16.024	1014.988	1224.992	0.615	7.184	16.024	6.826
2022-08-07 9:15	3870904	8.142	-116.138	16.015	1018.402	1229.387	0.617	7.086	16.015	6.876
2022-08-07 9:30	3871804	8.154	-116.818	16.008	1017.822	1228.874	0.617	6.397	16.008	6.872
2022-08-07 9:45	3872704	8.152	-116.699	16.022	1015.944	1226.207	0.616	6.222	16.022	6.753
2022-08-07 10:00	3873604	8.185	-118.539	16.062	1014.395	1223.217	0.614	8.149	16.062	6.668
2022-08-07 10:15	3874504	8.167	-117.579	16.103	1013.968	1221.561	0.613	6.396	16.103	6.872
2022-08-07 10:30	3875404	8.156	-117.009	16.153	1018.916	1226.096	0.616	6.274	16.153	7.006
2022-08-07 10:45	3876304	8.177	-118.203	16.231	1019.252	1224.312	0.615	6.238	16.231	7.185
2022-08-07 11:00	3877204	8.204	-119.736	16.349	1023.057	1225.552	0.616	7.537	16.349	7.334
2022-08-07 11:15	3878104	8.207	-119.929	16.436	1021.787	1221.611	0.614	6.732	16.436	7.593
2022-08-07 11:30	3879004	8.214	-120.354	16.529	1028.724	1227.297	0.617	7.250	16.529	7.608
2022-08-07 11:45	3879904	8.215	-120.451	16.594	1029.961	1226.964	0.616	6.169	16.594	7.719

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-07 12:00	3880804	8.240	-121.951	16.785	1032.702	1224.891	0.615	8.343	16.785	7.920
2022-08-07 12:15	3881704	8.238	-121.889	16.904	1034.042	1223.188	0.615	6.394	16.904	8.182
2022-08-07 12:30	3882604	8.250	-122.635	17.067	1037.564	1222.861	0.615	6.705	17.067	8.238
2022-08-07 12:45	3883504	8.271	-123.882	17.238	1037.951	1218.625	0.612	6.679	17.238	8.322
2022-08-07 13:00	3884404	8.270	-123.906	17.426	1047.124	1224.219	0.615	7.805	17.426	8.233
2022-08-07 13:15	3885304	8.269	-123.889	17.591	1050.108	1223.202	0.615	6.580	17.591	8.350
2022-08-07 13:30	3886204	8.270	-124.037	17.776	1057.870	1227.186	0.617	6.853	17.776	8.298
2022-08-07 13:45	3887104	8.287	-125.077	18.003	1061.287	1224.989	0.616	7.322	18.003	8.545
2022-08-07 14:00	3888004	8.303	-126.088	18.231	1073.035	1232.369	0.620	7.628	18.231	8.515
2022-08-07 14:15	3888904	8.308	-126.421	18.428	1079.188	1234.092	0.621	6.743	18.428	8.508
2022-08-07 14:30	3889804	8.311	-126.736	18.650	1085.456	1235.269	0.622	6.164	18.650	8.786
2022-08-07 14:45	3890704	8.318	-127.170	18.812	1086.553	1232.184	0.620	7.408	18.812	8.841
2022-08-07 15:00	3891604	8.325	-127.628	18.966	1091.969	1234.218	0.621	7.972	18.966	8.825
2022-08-07 15:15	3892504	8.316	-127.141	19.053	1100.710	1241.752	0.625	6.965	19.053	8.703
2022-08-07 15:30	3893404	8.326	-127.766	19.192	1103.415	1241.081	0.625	6.444	19.192	8.896
2022-08-07 15:45	3894304	8.326	-127.847	19.293	1111.145	1247.093	0.628	7.240	19.293	8.886
2022-08-07 16:00	3895204	8.343	-128.846	19.468	1109.671	1240.764	0.625	8.179	19.468	8.893
2022-08-07 16:15	3896104	8.332	-128.257	19.507	1112.870	1243.312	0.626	6.756	19.507	8.948
2022-08-07 16:30	3897004	8.333	-128.350	19.571	1118.661	1248.081	0.629	7.565	19.571	8.748
2022-08-07 16:45	3897904	8.327	-128.055	19.626	1127.155	1256.089	0.633	6.697	19.626	8.730
2022-08-07 17:00	3898804	8.344	-128.999	19.683	1128.805	1256.392	0.633	7.671	19.683	8.788
2022-08-07 17:15	3899704	8.334	-128.436	19.699	1131.277	1258.714	0.634	12.427	19.699	8.717
2022-08-07 17:30	3900604	8.339	-128.748	19.757	1129.781	1255.517	0.633	10.078	19.757	8.703
2022-08-07 17:45	3901504	8.334	-128.510	19.797	1127.658	1252.080	0.631	9.411	19.797	8.655
2022-08-07 18:00	3902404	8.348	-129.306	19.790	1130.327	1255.231	0.633	9.984	19.790	8.604
2022-08-07 18:15	3903304	8.322	-127.814	19.744	1132.269	1258.633	0.634	7.890	19.744	8.353
2022-08-07 18:30	3904204	8.321	-127.783	19.758	1129.963	1255.674	0.633	7.372	19.758	8.418
2022-08-07 18:45	3905104	8.321	-127.747	19.707	1128.793	1255.736	0.633	8.081	19.707	8.393
2022-08-07 19:00	3906004	8.331	-128.267	19.656	1130.259	1258.747	0.634	8.624	19.656	8.325
2022-08-07 19:15	3906904	8.323	-127.804	19.611	1130.337	1260.029	0.635	7.633	19.611	8.237
2022-08-07 19:30	3907804	8.325	-127.885	19.574	1126.747	1257.032	0.633	7.788	19.574	8.235
2022-08-07 19:45	3908704	8.310	-127.041	19.520	1128.622	1260.570	0.635	7.248	19.520	8.109
2022-08-07 20:00	3909604	8.338	-128.613	19.478	1123.881	1256.397	0.633	10.365	19.478	8.116
2022-08-07 20:15	3910504	8.323	-127.728	19.421	1125.943	1260.228	0.635	10.067	19.421	8.048
2022-08-07 20:30	3911404	8.314	-127.189	19.392	1122.240	1256.866	0.633	7.656	19.392	7.931
2022-08-07 20:45	3912304	8.311	-126.987	19.314	1119.822	1256.262	0.633	7.903	19.314	7.899
2022-08-07 21:00	3913204	8.312	-127.046	19.245	1118.498	1256.641	0.633	8.384	19.245	7.891
2022-08-07 21:15	3914104	8.304	-126.541	19.228	1117.987	1256.504	0.633	8.079	19.228	7.788
2022-08-07 21:30	3915004	8.296	-126.066	19.173	1117.129	1257.026	0.633	7.486	19.173	7.718
2022-08-07 21:45	3915904	8.302	-126.395	19.123	1111.670	1252.241	0.631	7.756	19.123	7.623
2022-08-07 22:00	3916804	8.301	-126.331	19.070	1105.221	1246.384	0.628	9.284	19.070	7.578
2022-08-07 22:15	3917704	8.282	-125.277	19.053	1102.081	1243.307	0.626	6.925	19.053	7.530
2022-08-07 22:30	3918604	8.277	-124.922	18.969	1098.984	1242.064	0.625	7.995	18.969	7.503
2022-08-07 22:45	3919504	8.265	-124.254	18.900	1094.359	1238.683	0.624	7.466	18.900	7.401

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-07 23:00	3920404	8.272	-124.607	18.864	1082.969	1226.752	0.617	9.477	18.864	7.361
2022-08-07 23:15	3921304	8.262	-124.033	18.802	1078.070	1222.838	0.615	25.636	18.802	7.348
2022-08-07 23:30	3922204	8.257	-123.723	18.759	1071.593	1216.627	0.612	7.992	18.759	7.307
2022-08-07 23:45	3923104	8.248	-123.203	18.694	1065.166	1211.024	0.609	8.629	18.694	7.274
2022-08-08 0:00	3924004	8.259	-123.758	18.586	1057.390	1205.017	0.606	10.403	18.586	7.245
2022-08-08 0:15	3924904	8.236	-122.440	18.519	1053.371	1202.199	0.604	9.022	18.519	7.182
2022-08-08 0:30	3925804	8.232	-122.182	18.466	1045.164	1194.207	0.600	8.449	18.466	7.016
2022-08-08 0:45	3926704	8.230	-122.066	18.427	1039.673	1188.924	0.597	9.116	18.427	7.086
2022-08-08 1:00	3927604	8.229	-121.994	18.350	1029.180	1178.926	0.592	12.895	18.350	7.013
2022-08-08 1:15	3928504	8.212	-121.012	18.307	1023.624	1173.663	0.589	8.571	18.307	6.912
2022-08-08 1:30	3929404	8.203	-120.485	18.258	1021.683	1172.700	0.589	7.838	18.258	6.839
2022-08-08 1:45	3930304	8.197	-120.089	18.201	1021.082	1173.467	0.589	8.438	18.201	6.831
2022-08-08 2:00	3931204	8.219	-121.343	18.147	1013.940	1166.650	0.586	11.454	18.147	6.843
2022-08-08 2:15	3932104	8.189	-119.612	18.118	1011.848	1164.972	0.585	8.985	18.118	6.765
2022-08-08 2:30	3933004	8.192	-119.786	18.039	1008.970	1163.693	0.584	9.480	18.039	6.854
2022-08-08 2:45	3933904	8.195	-119.891	17.996	1004.973	1160.176	0.582	9.581	17.996	6.904
2022-08-08 3:00	3934804	8.203	-120.370	17.988	990.492	1143.656	0.573	11.549	17.988	6.746
2022-08-08 3:15	3935704	8.178	-118.923	17.935	993.320	1148.267	0.576	9.408	17.935	6.643
2022-08-08 3:30	3936604	8.182	-119.133	17.878	988.064	1143.638	0.573	9.624	17.878	6.588
2022-08-08 3:45	3937504	8.172	-118.556	17.820	985.188	1141.773	0.572	9.433	17.820	6.581
2022-08-08 4:00	3938404	8.196	-119.848	17.747	981.361	1139.179	0.571	11.497	17.747	6.645
2022-08-08 4:15	3939304	8.182	-119.040	17.666	980.760	1140.518	0.572	29.099	17.666	6.720
2022-08-08 4:30	3940204	8.167	-118.215	17.606	981.520	1142.923	0.573	8.810	17.606	6.587
2022-08-08 4:45	3941104	8.163	-117.917	17.541	974.519	1136.414	0.570	8.984	17.541	6.600
2022-08-08 5:00	3942004	8.172	-118.425	17.486	967.153	1129.209	0.566	9.965	17.486	6.593
2022-08-08 5:15	3942904	8.162	-117.826	17.402	969.817	1134.445	0.568	8.558	17.402	6.599
2022-08-08 5:30	3943804	8.154	-117.354	17.352	964.511	1129.498	0.566	8.598	17.352	6.560
2022-08-08 5:45	3944704	8.122	-115.533	17.275	964.161	1131.043	0.567	8.280	17.275	6.520
2022-08-08 6:00	3945604	8.173	-118.375	17.211	958.342	1125.825	0.564	10.003	17.211	6.501
2022-08-08 6:15	3946504	8.147	-116.911	17.183	957.094	1125.070	0.563	8.203	17.183	***6.477***
2022-08-08 6:30	3947404	8.160	-117.624	17.143	950.587	1118.416	0.560	12.201	17.143	***6.426***
2022-08-08 6:45	3948304	8.164	-117.781	17.067	950.504	1120.242	0.561	8.746	17.067	6.629
2022-08-08 7:00	3949204	8.166	-117.896	16.980	950.762	1122.736	0.562	9.676	16.980	***6.438***
2022-08-08 7:15	3950104	8.158	-117.385	16.934	946.625	1119.015	0.560	8.273	16.934	***6.455***
2022-08-08 7:30	3951004	8.167	-117.931	16.913	940.892	1112.763	0.557	6.946	16.913	6.615
2022-08-08 7:45	3951904	8.169	-118.032	16.895	934.175	1105.284	0.553	7.207	16.895	6.649
2022-08-08 8:00	3952804	8.196	-119.483	16.846	929.732	1101.237	0.551	14.031	16.846	6.645
2022-08-08 8:15	3953704	8.155	-117.199	16.813	932.314	1105.119	0.553	8.136	16.813	6.641
2022-08-08 8:30	3954604	8.139	-116.293	16.792	928.741	1101.400	0.551	7.131	16.792	6.673
2022-08-08 8:45	3955504	8.164	-117.674	16.737	932.212	1106.910	0.554	6.843	16.737	6.658
2022-08-08 9:00	3956404	8.190	-119.104	16.682	933.274	1109.554	0.555	8.793	16.682	6.672
2022-08-08 9:15	3957304	8.177	-118.337	16.646	944.476	1123.798	0.563	7.878	16.646	6.587
2022-08-08 9:30	3958204	8.168	-117.834	16.634	947.935	1128.206	0.565	7.726	16.634	6.583
2022-08-08 9:45	3959104	8.195	-119.352	16.639	941.373	1120.278	0.561	7.989	16.639	6.685

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-08 10:00	3960004	8.217	-120.554	16.625	935.010	1113.058	0.557	10.347	16.625	6.867
2022-08-08 10:15	3960904	8.207	-120.013	16.633	929.699	1106.539	0.554	7.324	16.633	7.013
2022-08-08 10:30	3961804	8.213	-120.394	16.659	926.904	1102.558	0.551	6.675	16.659	7.068
2022-08-08 10:45	3962704	8.216	-120.561	16.721	917.899	1090.315	0.545	6.280	16.721	7.074
2022-08-08 11:00	3963604	8.230	-121.374	16.839	912.901	1081.471	0.541	26.388	16.839	7.169
2022-08-08 11:15	3964504	8.215	-120.547	16.873	925.995	1096.154	0.548	6.785	16.873	7.073
2022-08-08 11:30	3965404	8.226	-121.210	16.965	933.463	1102.699	0.552	6.062	16.965	7.191
2022-08-08 11:45	3966304	8.219	-120.881	17.087	923.749	1088.214	0.544	6.498	17.087	7.461
2022-08-08 12:00	3967204	8.234	-121.765	17.179	932.271	1095.999	0.548	8.067	17.179	7.330
2022-08-08 12:15	3968104	8.214	-120.685	17.225	937.222	1100.681	0.551	6.234	17.225	7.331
2022-08-08 12:30	3969004	8.207	-120.270	17.287	949.534	1113.597	0.558	6.184	17.287	7.254
2022-08-08 12:45	3969904	8.195	-119.646	17.329	967.544	1133.644	0.568	6.284	17.329	7.072
2022-08-08 13:00	3970804	8.242	-122.306	17.408	957.239	1119.594	0.561	6.810	17.408	7.585
2022-08-08 13:15	3971704	8.233	-121.856	17.478	956.167	1116.592	0.559	5.207	17.478	7.745
2022-08-08 13:30	3972604	8.261	-123.434	17.573	956.164	1114.215	0.558	5.399	17.573	7.876
2022-08-08 13:45	3973504	8.245	-122.578	17.685	956.982	1112.415	0.557	5.225	17.685	7.869
2022-08-08 14:00	3974404	8.273	-124.252	17.849	972.722	1126.603	0.565	7.347	17.849	7.532
2022-08-08 14:15	3975304	8.282	-124.764	17.942	973.835	1125.565	0.564	5.361	17.942	8.239
2022-08-08 14:30	3976204	8.275	-124.452	18.090	971.446	1119.152	0.561	4.843	18.090	8.105
2022-08-08 14:45	3977104	8.266	-124.009	18.187	978.385	1124.745	0.564	4.835	18.187	8.007
2022-08-08 15:00	3978004	8.267	-124.099	18.342	983.248	1126.507	0.565	6.396	18.342	7.826
2022-08-08 15:15	3978904	8.293	-125.651	18.578	989.229	1127.532	0.565	5.611	18.578	8.283
2022-08-08 15:30	3979804	8.270	-124.419	18.652	998.152	1135.875	0.570	4.897	18.652	8.097
2022-08-08 15:45	3980704	8.290	-125.546	18.747	1006.300	1142.781	0.573	6.781	18.747	8.160
2022-08-08 16:00	3981604	8.310	-126.779	18.914	1010.953	1143.930	0.574	6.534	18.914	8.188
2022-08-08 16:15	3982504	8.305	-126.526	18.990	1018.542	1150.626	0.577	4.754	18.990	8.257
2022-08-08 16:30	3983404	8.309	-126.812	19.109	1017.871	1146.932	0.576	4.787	19.109	8.459
2022-08-08 16:45	3984304	8.312	-127.037	19.260	1022.911	1148.868	0.577	5.092	19.260	8.549
2022-08-08 17:00	3985204	8.310	-127.001	19.393	1028.308	1151.630	0.578	5.914	19.393	8.635
2022-08-08 17:15	3986104	8.315	-127.287	19.460	1031.277	1153.317	0.579	5.005	19.460	8.712
2022-08-08 17:30	3987004	8.321	-127.668	19.575	1032.194	1151.514	0.578	4.518	19.575	8.703
2022-08-08 17:45	3987904	8.343	-129.006	19.775	1035.526	1150.326	0.578	4.632	19.775	8.840
2022-08-08 18:00	3988804	8.348	-129.373	19.924	1039.391	1150.984	0.578	6.308	19.924	9.306
2022-08-08 18:15	3989704	8.349	-129.457	20.015	1028.308	1136.531	0.570	4.610	20.015	8.853
2022-08-08 18:30	3990604	8.331	-128.458	20.049	1021.543	1128.231	0.566	4.266	20.049	8.634
2022-08-08 18:45	3991504	8.354	-129.800	20.148	1015.128	1118.817	0.561	4.175	20.148	8.592
2022-08-08 19:00	3992404	8.338	-128.889	20.208	1010.981	1112.825	0.558	5.355	20.208	8.441
2022-08-08 19:15	3993304	8.354	-129.876	20.318	1033.379	1134.871	0.570	4.669	20.318	9.049
2022-08-08 19:30	3994204	8.352	-129.750	20.281	1010.808	1110.949	0.557	4.679	20.281	8.808
2022-08-08 19:45	3995104	8.348	-129.540	20.313	1019.232	1119.451	0.561	4.976	20.313	8.569
2022-08-08 20:00	3996004	8.350	-129.659	20.353	1004.675	1102.537	0.553	5.243	20.353	8.286
2022-08-08 20:15	3996904	8.347	-129.437	20.298	1009.539	1109.152	0.556	4.475	20.298	8.215
2022-08-08 20:30	3997804	8.333	-128.674	20.250	1017.799	1119.357	0.561	4.936	20.250	8.005
2022-08-08 20:45	3998704	8.330	-128.455	20.186	1016.756	1119.702	0.562	5.083	20.186	7.868

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-08 21:00	3999604	8.326	-128.162	20.083	1011.441	1116.267	0.560	6.158	20.083	7.668
2022-08-08 21:15	4000504	8.322	-127.943	20.040	1016.584	1122.978	0.563	4.957	20.040	7.782
2022-08-08 21:30	4001404	8.322	-127.861	19.909	1003.144	1111.191	0.557	4.657	19.909	7.591
2022-08-08 21:45	4002304	8.317	-127.594	19.855	1001.573	1110.732	0.557	5.154	19.855	7.606
2022-08-08 22:00	4003204	8.342	-128.970	19.791	978.793	1086.945	0.544	6.317	19.791	7.510
2022-08-08 22:15	4004104	8.311	-127.194	19.705	996.828	1108.977	0.556	5.517	19.705	7.339
2022-08-08 22:30	4005004	8.311	-127.106	19.614	987.080	1100.256	0.551	5.606	19.614	7.259
2022-08-08 22:45	4005904	8.305	-126.767	19.543	977.725	1091.490	0.547	4.040	19.543	7.191
2022-08-08 23:00	4006804	8.305	-126.746	19.523	958.676	1070.677	0.536	5.324	19.523	7.211
2022-08-08 23:15	4007704	8.304	-126.657	19.450	963.914	1078.204	0.540	5.281	19.450	7.265
2022-08-08 23:30	4008604	8.224	-122.309	19.779	781.451	868.006	0.431	4.977	19.779	7.242
2022-08-08 23:45	4009504	8.295	-126.071	19.291	956.327	1073.381	0.537	6.993	19.291	6.653
2022-08-09 0:00	4010404	8.305	-126.619	19.173	940.978	1058.817	0.530	7.952	19.173	6.555
2022-08-09 0:15	4011304	8.280	-125.172	19.114	957.249	1078.502	0.540	6.407	19.114	6.827
2022-08-09 0:30	4012204	8.284	-125.351	18.998	958.497	1082.609	0.542	4.864	18.998	***6.422***
2022-08-09 0:45	4013104	8.268	-124.502	19.190	907.004	1020.208	0.509	6.580	19.190	6.934
2022-08-09 1:00	4014004	8.296	-125.954	18.805	919.161	1042.518	0.521	5.716	18.805	6.656
2022-08-09 1:15	4014904	8.265	-124.230	18.890	907.161	1027.008	0.513	5.362	18.890	6.759
2022-08-09 1:30	4015804	8.264	-124.123	18.807	899.508	1020.181	0.509	4.851	18.807	6.640
2022-08-09 1:45	4016704	8.259	-123.849	18.795	877.408	995.382	0.497	4.647	18.795	6.685
2022-08-09 2:00	4017604	8.276	-124.786	18.786	849.580	963.988	0.480	12.075	18.786	6.644
2022-08-09 2:15	4018504	8.261	-123.889	18.674	854.011	971.383	0.484	4.811	18.674	6.744
2022-08-09 2:30	4019404	8.253	-123.413	18.610	857.654	976.881	0.487	5.054	18.610	6.665
2022-08-09 2:45	4020304	8.243	-122.850	18.548	849.726	969.158	0.483	4.955	18.548	6.603
2022-08-09 3:00	4021204	8.251	-123.281	18.480	832.313	950.699	0.473	6.583	18.480	6.678
2022-08-09 3:15	4022104	8.232	-122.151	18.400	835.749	956.298	0.476	4.241	18.400	6.565
2022-08-09 3:30	4023004	8.234	-122.271	18.421	832.789	952.476	0.474	3.829	18.421	***6.484***
2022-08-09 3:45	4023904	8.226	-121.803	18.322	839.270	961.974	0.479	5.239	18.322	***6.409***
2022-08-09 4:00	4024804	8.245	-122.864	18.270	811.223	930.886	0.463	6.368	18.270	***6.300***
2022-08-09 4:15	4025704	8.231	-122.006	18.191	814.357	936.097	0.466	4.388	18.191	6.652
2022-08-09 4:30	4026604	8.225	-121.729	18.275	810.103	929.498	0.462	4.695	18.275	6.616
2022-08-09 4:45	4027504	8.186	-119.390	17.969	834.462	963.914	0.480	5.003	17.969	***5.532***
2022-08-09 5:00	4028404	8.228	-121.770	17.976	841.034	971.350	0.484	5.249	17.976	***5.981***
2022-08-09 5:15	4029304	8.237	-122.235	17.937	837.077	967.621	0.482	4.350	17.937	6.514
2022-08-09 5:30	4030204	8.212	-120.795	17.803	826.273	957.945	0.477	6.661	17.803	6.522
2022-08-09 5:45	4031104	8.232	-121.861	17.686	824.574	958.468	0.477	5.464	17.686	***6.329***
2022-08-09 6:00	4032004	8.248	-122.752	17.650	824.537	959.188	0.477	7.733	17.650	***6.213***
2022-08-09 6:15	4032904	8.251	-122.929	17.641	841.937	979.635	0.488	4.578	17.641	***6.450***
2022-08-09 6:30	4033804	8.261	-123.446	17.618	835.842	973.029	0.485	4.726	17.618	6.624
2022-08-09 6:45	4034704	8.257	-123.267	17.638	831.247	967.250	0.482	6.421	17.638	6.633
2022-08-09 7:00	4035604	8.260	-123.422	17.675	836.010	972.010	0.484	6.297	17.675	6.590
2022-08-09 7:15	4036504	8.219	-121.133	17.640	826.209	961.345	0.479	5.804	17.640	***6.442***
2022-08-09 7:30	4037404	8.265	-123.668	17.636	853.796	993.547	0.495	5.029	17.636	6.504
2022-08-09 7:45	4038304	8.264	-123.587	17.543	854.602	996.527	0.497	5.374	17.543	6.847

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-09 8:00	4039204	8.271	-123.987	17.570	835.111	973.216	0.485	6.430	17.570	6.682
2022-08-09 8:15	4040104	8.247	-122.678	17.562	845.003	984.919	0.491	5.330	17.562	6.708
2022-08-09 8:30	4041004	8.253	-122.976	17.570	864.262	1007.197	0.502	5.150	17.570	6.693
2022-08-09 8:45	4041904	8.260	-123.386	17.536	858.844	1001.638	0.499	4.950	17.536	6.744
2022-08-09 9:00	4042804	8.262	-123.537	17.617	856.242	996.816	0.497	5.825	17.617	6.722
2022-08-09 9:15	4043704	8.254	-123.060	17.591	864.862	1007.431	0.502	5.433	17.591	6.692
2022-08-09 9:30	4044604	8.243	-122.454	17.621	863.315	1004.957	0.501	4.679	17.621	6.579
2022-08-09 9:45	4045504	8.253	-123.017	17.631	878.245	1022.104	0.510	5.080	17.631	6.562
2022-08-09 10:00	4046404	8.255	-123.153	17.738	830.015	963.684	0.480	8.468	17.738	***6.429***
2022-08-09 10:15	4047304	8.211	-120.773	17.861	808.077	935.656	0.465	5.413	17.861	6.644
2022-08-09 10:30	4048204	8.220	-121.295	17.994	826.128	953.756	0.475	5.446	17.994	***6.391***
2022-08-09 10:45	4049104	8.201	-120.354	18.206	727.138	835.567	0.414	5.362	18.206	6.782
2022-08-09 11:00	4050004	8.155	-117.998	18.755	584.806	664.015	0.326	5.676	18.755	6.780
2022-08-09 11:15	4050904	8.151	-117.872	19.084	462.963	521.943	0.254	3.221	19.084	6.892
2022-08-09 11:30	4051804	8.149	-117.853	19.276	447.430	502.350	0.245	4.098	19.276	7.021
2022-08-09 11:45	4052704	8.138	-117.292	19.374	447.338	501.198	0.244	3.356	19.374	7.045
2022-08-09 12:00	4053604	8.148	-117.862	19.488	451.324	504.435	0.246	8.418	19.488	7.118
2022-08-09 12:15	4054504	8.152	-118.134	19.586	451.409	503.468	0.245	6.042	19.586	7.227
2022-08-09 12:30	4055404	8.157	-118.473	19.720	451.180	501.783	0.244	3.490	19.720	7.256
2022-08-09 12:45	4056304	8.368	-130.415	19.744	3.651	4.058	0.001	0.842	19.744	8.407
2022-08-09 13:00	4057204	8.134	-117.309	20.062	483.739	534.118	0.261	39.032	20.062	7.215
2022-08-09 13:15	4058104	8.267	-124.922	20.225	406.583	447.386	0.217	543.721	20.225	8.284
2022-08-09 13:30	4059004	8.161	-119.047	20.618	491.300	536.176	0.262	6.530	20.618	7.339
2022-08-09 13:45	4059904	8.145	-118.239	20.810	468.020	508.729	0.248	2.218	20.810	7.298
2022-08-09 14:00	4060804	8.137	-117.891	21.006	457.029	494.773	0.241	13.344	21.006	7.307
2022-08-09 14:15	4061704	8.274	-124.779	19.028	884.352	998.207	0.498	3.163	19.028	8.851
2022-08-09 14:30	4062604	8.242	-123.110	19.255	881.400	990.033	0.494	2.927	19.255	8.812
2022-08-09 14:45	4063504	8.236	-122.755	19.317	886.696	994.655	0.496	2.530	19.317	8.846
2022-08-09 15:00	4064404	8.266	-124.547	19.455	891.298	996.879	0.497	7.157	19.455	8.834
2022-08-09 15:15	4065304	8.289	-125.802	19.444	905.280	1012.754	0.506	2.386	19.444	9.192
2022-08-09 15:30	4066204	8.285	-125.601	19.521	916.081	1023.154	0.511	1.979	19.521	9.331
2022-08-09 15:45	4067104	8.285	-125.709	19.688	909.637	1012.359	0.506	2.192	19.688	9.370
2022-08-09 16:00	4068004	8.316	-127.461	19.782	922.712	1024.845	0.512	2.031	19.782	9.252
2022-08-09 16:15	4068904	8.293	-126.355	20.156	894.412	985.610	0.492	2.136	20.156	9.215
2022-08-09 16:30	4069804	8.310	-127.115	19.687	952.028	1059.545	0.530	2.457	19.687	8.576
2022-08-09 16:45	4070704	8.288	-125.914	19.866	946.450	1049.350	0.525	2.619	19.866	8.535
2022-08-09 17:00	4071604	8.318	-127.473	19.560	963.652	1075.388	0.538	2.222	19.560	8.436
2022-08-09 17:15	4072504	8.298	-126.438	19.694	963.593	1072.256	0.537	2.050	19.694	8.535
2022-08-09 17:30	4073404	8.295	-126.266	19.712	968.457	1077.258	0.539	2.116	19.712	8.533
2022-08-09 17:45	4074304	8.289	-126.004	19.849	964.843	1070.118	0.536	1.720	19.849	8.757
2022-08-09 18:00	4075204	8.317	-127.618	20.003	974.318	1077.132	0.539	2.800	20.003	8.737
2022-08-09 18:15	4076104	8.315	-127.547	20.044	976.786	1078.916	0.540	2.511	20.044	8.840
2022-08-09 18:30	4077004	8.316	-127.630	20.055	982.845	1085.357	0.544	2.096	20.055	8.940
2022-08-09 18:45	4077904	8.311	-127.351	20.064	984.105	1086.542	0.544	1.755	20.064	8.844

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-09 19:00	4078804	8.316	-127.652	20.133	984.588	1085.484	0.544	1.965	20.133	8.927
2022-08-09 19:15	4079704	8.311	-127.332	20.077	983.143	1085.186	0.544	1.772	20.077	8.934
2022-08-09 19:30	4080604	8.307	-127.065	20.042	983.325	1086.194	0.544	1.614	20.042	8.772
2022-08-09 19:45	4081504	8.300	-126.674	20.015	983.623	1087.123	0.545	1.402	20.015	8.815
2022-08-09 20:00	4082404	8.306	-127.010	20.053	981.239	1083.629	0.543	2.006	20.053	8.584
2022-08-09 20:15	4083304	8.288	-126.009	19.979	980.380	1084.377	0.543	1.881	19.979	8.620
2022-08-09 20:30	4084204	8.281	-125.623	19.985	980.139	1083.964	0.543	1.622	19.985	8.685
2022-08-09 20:45	4085104	8.271	-125.036	20.008	980.370	1083.701	0.543	1.740	20.008	8.624
2022-08-09 21:00	4086004	8.272	-125.124	20.025	973.334	1075.529	0.538	1.906	20.025	8.274
2022-08-09 21:15	4086904	8.265	-124.655	19.948	970.846	1074.542	0.538	1.763	19.948	8.267
2022-08-09 21:30	4087804	8.257	-124.190	19.830	969.420	1075.631	0.539	2.116	19.830	7.988
2022-08-09 21:45	4088704	8.245	-123.494	19.769	962.396	1069.216	0.535	1.785	19.769	7.885
2022-08-09 22:00	4089604	8.251	-123.808	19.800	953.222	1058.337	0.529	2.383	19.800	7.681
2022-08-09 22:15	4090504	8.234	-122.795	19.680	947.069	1054.196	0.527	1.694	19.680	7.481
2022-08-09 22:30	4091404	8.223	-122.190	19.666	945.354	1052.595	0.526	1.720	19.666	7.298
2022-08-09 22:45	4092304	8.218	-121.906	19.644	947.284	1055.234	0.528	1.804	19.644	7.201
2022-08-09 23:00	4093204	8.225	-122.302	19.704	945.646	1052.059	0.526	2.186	19.704	7.158
2022-08-09 23:15	4094104	8.225	-122.283	19.591	947.307	1056.443	0.528	2.377	19.591	7.110
2022-08-09 23:30	4095004	8.221	-121.987	19.508	945.610	1056.428	0.528	2.319	19.508	6.988
2022-08-09 23:45	4095904	8.211	-121.469	19.505	947.934	1059.095	0.530	1.926	19.505	6.809
2022-08-10 0:00	4096804	8.220	-121.906	19.442	912.677	1021.082	0.510	2.600	19.442	6.751
2022-08-10 0:15	4097704	8.199	-120.757	19.423	925.900	1036.288	0.518	2.302	19.423	6.690
2022-08-10 0:30	4098604	8.195	-120.511	19.394	916.260	1026.126	0.513	2.103	19.394	6.637
2022-08-10 0:45	4099504	8.191	-120.242	19.330	900.552	1009.924	0.504	2.438	19.330	6.722
2022-08-10 1:00	4100404	8.201	-120.776	19.243	853.984	959.490	0.478	2.794	19.243	6.654
2022-08-10 1:15	4101304	8.187	-119.925	19.121	881.973	993.536	0.496	2.061	19.121	6.660
2022-08-10 1:30	4102204	8.202	-120.766	19.082	834.604	940.969	0.468	2.989	19.082	6.750
2022-08-10 1:45	4103104	8.192	-120.163	19.011	839.668	948.132	0.472	2.099	19.011	6.818
2022-08-10 2:00	4104004	8.192	-120.177	19.028	819.493	925.009	0.460	2.423	19.028	6.786
2022-08-10 2:15	4104904	8.172	-119.040	18.976	842.348	951.876	0.474	2.194	18.976	6.711
2022-08-10 2:30	4105804	8.154	-118.003	18.925	841.551	952.026	0.474	2.066	18.925	6.710
2022-08-10 2:45	4106704	8.146	-117.497	18.879	839.109	950.205	0.473	1.954	18.879	6.616
2022-08-10 3:00	4107604	8.186	-119.748	18.844	778.573	882.320	0.438	2.659	18.844	6.504
2022-08-10 3:15	4108504	8.167	-118.678	18.761	814.147	924.293	0.460	2.809	18.761	6.559
2022-08-10 3:30	4109404	8.172	-118.871	18.568	806.786	919.777	0.457	3.116	18.568	***6.430***
2022-08-10 3:45	4110304	8.160	-118.182	18.574	802.634	914.921	0.455	2.792	18.574	6.502
2022-08-10 4:00	4111204	8.169	-118.723	18.584	785.656	895.385	0.445	3.020	18.584	***6.448***
2022-08-10 4:15	4112104	8.168	-118.568	18.399	791.910	906.155	0.450	2.725	18.399	***6.389***
2022-08-10 4:30	4113004	8.158	-117.993	18.389	797.887	913.199	0.454	2.692	18.389	***6.441***
2022-08-10 4:45	4113904	8.170	-118.642	18.280	780.678	895.633	0.445	4.814	18.280	***6.276***
2022-08-10 5:00	4114804	8.178	-119.085	18.278	773.025	886.895	0.440	8.162	18.278	***6.425***
2022-08-10 5:15	4115704	8.158	-117.927	18.262	783.258	898.957	0.446	3.511	18.262	***6.362***
2022-08-10 5:30	4116604	8.157	-117.881	18.261	754.019	865.414	0.429	3.768	18.261	6.560
2022-08-10 5:45	4117504	8.174	-118.775	18.063	762.553	879.012	0.436	1.965	18.063	6.504

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-10 6:00	4118404	8.185	-119.405	18.092	722.456	832.270	0.412	3.547	18.092	6.561
2022-08-10 6:15	4119304	8.170	-118.551	18.066	747.346	861.425	0.427	2.615	18.066	6.542
2022-08-10 6:30	4120204	8.155	-117.733	18.079	730.503	841.773	0.417	3.495	18.079	6.562
2022-08-10 6:45	4121104	8.204	-120.459	18.129	759.742	874.512	0.434	2.511	18.129	6.750
2022-08-10 7:00	4122004	8.205	-120.592	18.220	754.215	866.417	0.430	3.667	18.220	6.977
2022-08-10 7:15	4122904	8.197	-120.134	18.198	753.437	865.936	0.429	3.138	18.198	6.936
2022-08-10 7:30	4123804	8.201	-120.332	18.154	748.465	861.046	0.427	2.822	18.154	6.987
2022-08-10 7:45	4124704	8.202	-120.339	18.110	738.357	850.244	0.421	3.057	18.110	7.018
2022-08-10 8:00	4125604	8.217	-121.207	18.100	738.936	851.100	0.422	2.893	18.100	6.978
2022-08-10 8:15	4126504	8.207	-120.604	18.047	742.350	856.036	0.424	3.234	18.047	7.086
2022-08-10 8:30	4127404	8.210	-120.785	18.112	764.280	880.063	0.437	2.587	18.112	7.101
2022-08-10 8:45	4128304	8.206	-120.583	18.122	762.285	877.577	0.435	2.404	18.122	7.064
2022-08-10 9:00	4129204	8.221	-121.434	18.140	762.561	877.544	0.435	3.795	18.140	7.054
2022-08-10 9:15	4130104	8.209	-120.769	18.133	766.070	881.717	0.438	2.506	18.133	7.140
2022-08-10 9:30	4131004	8.209	-120.780	18.136	769.570	885.695	0.440	2.526	18.136	7.135
2022-08-10 9:45	4131904	8.201	-120.318	18.138	769.808	885.922	0.440	2.038	18.138	7.139
2022-08-10 10:00	4132804	8.216	-121.162	18.174	775.753	892.063	0.443	3.390	18.174	7.100
2022-08-10 10:15	4133704	8.204	-120.511	18.152	774.734	891.318	0.442	2.858	18.152	7.113
2022-08-10 10:30	4134604	8.205	-120.564	18.184	769.228	884.365	0.439	2.551	18.184	7.067
2022-08-10 10:45	4135504	8.201	-120.347	18.229	768.969	883.194	0.438	2.497	18.229	7.126
2022-08-10 11:00	4136404	8.224	-121.684	18.341	764.361	875.742	0.435	3.666	18.341	7.136
2022-08-10 11:15	4137304	8.196	-120.142	18.383	764.492	875.088	0.434	2.593	18.383	7.133
2022-08-10 11:30	4138204	8.208	-120.883	18.509	770.552	879.610	0.437	2.391	18.509	7.135
2022-08-10 11:45	4139104	8.194	-120.108	18.584	778.248	886.931	0.440	2.495	18.584	7.210
2022-08-10 12:00	4140004	8.212	-121.121	18.653	779.762	887.339	0.441	3.588	18.653	7.230
2022-08-10 12:15	4140904	8.210	-121.055	18.732	783.850	890.460	0.442	4.954	18.732	7.311
2022-08-10 12:30	4141804	8.219	-121.582	18.756	778.636	884.071	0.439	2.529	18.756	7.407
2022-08-10 12:45	4142704	8.223	-121.822	18.768	771.122	875.311	0.434	2.400	18.768	7.618
2022-08-10 13:00	4143604	8.236	-122.578	18.826	795.621	901.996	0.448	2.571	18.826	7.690
2022-08-10 13:15	4144504	8.260	-123.949	18.926	802.582	907.917	0.451	2.300	18.926	8.177
2022-08-10 13:30	4145404	8.240	-122.895	19.038	813.971	918.572	0.457	1.910	19.038	8.096
2022-08-10 13:45	4146304	8.254	-123.689	19.130	832.269	937.367	0.467	1.845	19.130	8.397
2022-08-10 14:00	4147204	8.279	-125.186	19.272	847.568	951.687	0.474	2.841	19.272	8.515
2022-08-10 14:15	4148104	8.285	-125.556	19.370	857.133	960.412	0.479	1.835	19.370	8.614
2022-08-10 14:30	4149004	8.284	-125.563	19.509	863.040	964.155	0.480	2.140	19.509	8.774
2022-08-10 14:45	4149904	8.280	-125.430	19.667	874.461	973.626	0.485	1.995	19.667	8.863
2022-08-10 15:00	4150804	8.283	-125.628	19.861	896.076	993.608	0.496	2.808	19.861	8.571
2022-08-10 15:15	4151704	8.278	-125.444	19.988	898.400	993.510	0.496	2.824	19.988	8.670
2022-08-10 15:30	4152604	8.276	-125.396	20.178	906.934	998.936	0.499	2.358	20.178	8.843
2022-08-10 15:45	4153504	8.304	-127.075	20.360	921.240	1010.813	0.505	1.939	20.360	8.995
2022-08-10 16:00	4154404	8.308	-127.385	20.584	940.021	1026.618	0.513	2.547	20.584	9.406
2022-08-10 16:15	4155304	8.292	-126.491	20.649	941.908	1027.287	0.513	2.006	20.649	9.369
2022-08-10 16:30	4156204	8.289	-126.400	20.779	963.523	1048.022	0.524	1.710	20.779	9.303
2022-08-10 16:45	4157104	8.302	-127.141	20.869	965.591	1048.299	0.524	1.905	20.869	9.383

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-10 17:00	4158004	8.305	-127.375	20.997	964.695	1044.551	0.523	2.162	20.997	9.424
2022-08-10 17:15	4158904	8.295	-126.872	21.115	962.376	1039.512	0.520	1.726	21.115	9.444
2022-08-10 17:30	4159804	8.298	-127.118	21.224	965.016	1040.013	0.520	1.658	21.224	9.446
2022-08-10 17:45	4160704	8.300	-127.275	21.357	966.306	1038.563	0.519	1.599	21.357	9.561
2022-08-10 18:00	4161604	8.311	-127.966	21.547	964.817	1032.939	0.517	2.348	21.547	9.597
2022-08-10 18:15	4162504	8.291	-126.848	21.585	961.898	1029.022	0.514	1.819	21.585	9.424
2022-08-10 18:30	4163404	8.283	-126.400	21.636	967.587	1034.025	0.517	1.709	21.636	9.305
2022-08-10 18:45	4164304	8.295	-127.103	21.629	976.033	1043.206	0.522	1.604	21.629	9.502
2022-08-10 19:00	4165204	8.312	-128.100	21.704	961.246	1025.835	0.513	2.142	21.704	9.599
2022-08-10 19:15	4166104	8.287	-126.657	21.613	958.569	1024.871	0.512	1.879	21.613	9.489
2022-08-10 19:30	4167004	8.271	-125.704	21.617	958.080	1024.253	0.512	1.788	21.617	9.445
2022-08-10 19:45	4167904	8.261	-125.136	21.559	952.857	1019.886	0.510	1.731	21.559	9.459
2022-08-10 20:00	4168804	8.259	-125.065	21.731	948.341	1011.492	0.505	1.957	21.731	9.281
2022-08-10 20:15	4169704	8.243	-124.149	21.665	953.966	1018.860	0.509	1.831	21.665	9.563
2022-08-10 20:30	4170604	8.233	-123.587	21.718	956.005	1019.939	0.510	1.863	21.718	9.533
2022-08-10 20:45	4171504	8.220	-122.855	21.659	953.885	1018.913	0.509	1.661	21.659	9.258
2022-08-10 21:00	4172404	8.212	-122.466	21.795	936.779	997.870	0.498	2.003	21.795	8.726
2022-08-10 21:15	4173304	8.190	-121.121	21.650	939.325	1003.527	0.501	1.775	21.650	8.629
2022-08-10 21:30	4174204	8.183	-120.788	21.742	904.182	964.179	0.481	4.666	21.742	8.014
2022-08-10 21:45	4175104	8.186	-120.862	21.584	883.046	944.692	0.471	2.751	21.584	7.660
2022-08-10 22:00	4176004	8.179	-120.506	21.648	841.620	899.188	0.447	2.594	21.648	7.504
2022-08-10 22:15	4176904	8.164	-119.603	21.513	839.602	899.517	0.447	2.209	21.513	7.355
2022-08-10 22:30	4177804	8.145	-118.501	21.480	807.224	865.402	0.430	2.282	21.480	7.017
2022-08-10 22:45	4178704	8.131	-117.688	21.444	804.658	863.286	0.429	2.935	21.444	6.778
2022-08-10 23:00	4179604	8.133	-117.812	21.365	757.649	814.180	0.403	2.617	21.365	6.697
2022-08-10 23:15	4180504	8.134	-117.741	21.123	782.229	844.786	0.419	2.430	21.123	6.530
2022-08-10 23:30	4181404	8.121	-117.021	21.117	773.080	835.010	0.414	2.328	21.117	***6.441***
2022-08-10 23:45	4182304	8.102	-115.957	21.169	758.115	817.963	0.405	2.045	21.169	***6.420***
2022-08-11 0:00	4183204	8.106	-116.134	20.992	701.362	759.504	0.375	3.602	20.992	***6.433***
2022-08-11 0:15	4184104	8.114	-116.520	20.903	714.662	775.334	0.383	2.997	20.903	***6.309***
2022-08-11 0:30	4185004	8.090	-115.147	20.821	702.826	763.794	0.377	3.070	20.821	***6.267***
2022-08-11 0:45	4185904	8.095	-115.407	20.785	691.312	751.833	0.371	2.844	20.785	***6.146***
2022-08-11 1:00	4186804	8.124	-117.049	20.734	614.510	669.028	0.329	3.975	20.734	***6.284***
2022-08-11 1:15	4187704	8.089	-115.032	20.681	647.717	705.957	0.348	2.919	20.681	***6.351***
2022-08-11 1:30	4188604	8.125	-117.025	20.579	628.517	686.480	0.338	2.473	20.579	***6.365***
2022-08-11 1:45	4189504	8.151	-118.401	20.417	614.644	673.608	0.331	3.341	20.417	6.567
2022-08-11 2:00	4190404	8.130	-117.221	20.401	587.313	643.872	0.316	4.437	20.401	6.514
2022-08-11 2:15	4191304	8.096	-115.275	20.312	616.026	676.609	0.333	2.589	20.312	***6.362***
2022-08-11 2:30	4192204	8.116	-116.372	20.187	601.089	661.934	0.325	2.499	20.187	***6.272***
2022-08-11 2:45	4193104	8.128	-116.975	20.105	597.234	658.836	0.324	2.852	20.105	***6.273***
2022-08-11 3:00	4194004	8.141	-117.714	20.009	561.888	621.094	0.305	3.638	20.009	***6.434***
2022-08-11 3:15	4194904	8.128	-116.904	19.911	565.713	626.616	0.307	3.348	19.911	***6.492***
2022-08-11 3:30	4195804	8.132	-117.092	19.765	579.841	644.258	0.316	3.850	19.765	***6.480***
2022-08-11 3:45	4196704	8.155	-118.346	19.643	569.658	634.588	0.311	2.310	19.643	***6.481***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-11 4:00	4197604	8.163	-118.761	19.512	558.592	624.002	0.306	4.230	19.512	6.647
2022-08-11 4:15	4198504	8.162	-118.647	19.409	567.114	634.922	0.312	2.125	19.409	6.711
2022-08-11 4:30	4199404	8.163	-118.682	19.365	576.355	645.872	0.317	2.112	19.365	6.683
2022-08-11 4:45	4200304	8.163	-118.682	19.335	578.142	648.281	0.318	2.094	19.335	6.704
2022-08-11 5:00	4201204	8.159	-118.420	19.300	582.960	654.182	0.321	5.025	19.300	6.681
2022-08-11 5:15	4202104	8.146	-117.700	19.330	584.665	655.677	0.322	2.781	19.330	***6.494***
2022-08-11 5:30	4203004	8.153	-118.072	19.242	587.995	660.652	0.325	2.583	19.242	6.575
2022-08-11 5:45	4203904	8.159	-118.418	19.229	618.098	694.667	0.342	2.093	19.229	6.654
2022-08-11 6:00	4204804	8.166	-118.814	19.343	670.767	752.016	0.371	4.379	19.343	6.879
2022-08-11 6:15	4205704	8.151	-117.986	19.343	684.881	767.842	0.379	2.912	19.343	6.848
2022-08-11 6:30	4206604	8.144	-117.626	19.351	708.808	794.539	0.393	3.473	19.351	6.817
2022-08-11 6:45	4207504	8.140	-117.364	19.361	723.168	810.451	0.401	3.104	19.361	6.909
2022-08-11 7:00	4208404	8.164	-118.737	19.379	738.299	827.096	0.410	8.473	19.379	6.885
2022-08-11 7:15	4209304	8.135	-117.111	19.341	735.128	824.215	0.408	3.600	19.341	6.690
2022-08-11 7:30	4210204	8.123	-116.401	19.296	739.304	829.689	0.411	3.222	19.296	6.708
2022-08-11 7:45	4211104	8.126	-116.568	19.253	738.939	830.052	0.411	2.848	19.253	6.754
2022-08-11 8:00	4212004	8.125	-116.460	19.245	748.176	840.580	0.417	5.377	19.245	6.863
2022-08-11 8:15	4212904	8.114	-115.869	19.211	748.660	841.734	0.417	4.006	19.211	6.753
2022-08-11 8:30	4213804	8.099	-115.006	19.178	754.136	848.485	0.421	3.090	19.178	6.598
2022-08-11 8:45	4214704	8.104	-115.290	19.141	756.157	851.437	0.422	7.863	19.141	6.557
2022-08-11 9:00	4215604	8.112	-115.738	19.142	754.393	849.438	0.421	3.383	19.142	6.660
2022-08-11 9:15	4216504	8.116	-115.950	19.109	753.853	849.428	0.421	3.184	19.109	6.734
2022-08-11 9:30	4217404	8.118	-116.053	19.091	753.932	849.844	0.421	2.982	19.091	6.731
2022-08-11 9:45	4218304	8.123	-116.334	19.096	756.885	853.081	0.423	3.119	19.096	6.715
2022-08-11 10:00	4219204	8.126	-116.487	19.079	762.580	859.820	0.426	4.222	19.079	6.717
2022-08-11 10:15	4220104	8.139	-117.190	19.035	760.623	858.427	0.426	4.071	19.035	6.768
2022-08-11 10:30	4221004	8.135	-116.959	18.977	754.684	852.794	0.423	3.622	18.977	6.844
2022-08-11 10:45	4221904	8.137	-117.071	18.967	752.545	850.564	0.422	4.175	18.967	6.836
2022-08-11 11:00	4222804	8.151	-117.877	19.040	757.759	855.097	0.424	4.090	19.040	6.838
2022-08-11 11:15	4223704	8.156	-118.163	19.081	757.961	854.575	0.424	3.787	19.081	7.054
2022-08-11 11:30	4224604	8.153	-117.998	19.112	760.011	856.304	0.425	3.638	19.112	7.086
2022-08-11 11:45	4225504	8.159	-118.349	19.114	754.094	849.609	0.421	4.510	19.114	7.081
2022-08-11 12:00	4226404	8.171	-119.035	19.191	748.594	842.018	0.417	4.585	19.191	7.143
2022-08-11 12:15	4227304	8.147	-117.769	19.282	754.473	846.966	0.420	3.457	19.282	7.311
2022-08-11 12:30	4228204	8.145	-117.669	19.380	755.490	846.337	0.420	3.508	19.380	7.168
2022-08-11 12:45	4229104	8.179	-119.627	19.452	742.802	830.842	0.412	3.162	19.452	7.181
2022-08-11 13:00	4230004	8.170	-119.102	19.409	630.266	705.625	0.348	3.294	19.409	7.155
2022-08-11 13:15	4230904	8.171	-119.190	19.451	597.455	668.277	0.328	3.053	19.451	7.194
2022-08-11 13:30	4231804	8.169	-119.066	19.497	579.506	647.570	0.318	3.356	19.497	7.256
2022-08-11 13:45	4232704	8.160	-118.582	19.591	576.117	642.492	0.315	2.680	19.591	7.290
2022-08-11 14:00	4233604	8.175	-119.524	19.816	588.350	653.003	0.321	4.183	19.816	7.365
2022-08-11 14:15	4234504	8.179	-119.834	19.947	598.511	662.444	0.326	2.914	19.947	7.810
2022-08-11 14:30	4235404	8.196	-120.902	20.189	611.556	673.444	0.331	2.729	20.189	8.046
2022-08-11 14:45	4236304	8.177	-119.822	20.285	681.785	749.256	0.370	2.622	20.285	8.514

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-11 15:00	4237204	8.264	-124.850	20.505	707.916	774.402	0.383	2.781	20.505	8.601
2022-08-11 15:15	4238104	8.244	-123.718	20.541	703.901	769.436	0.380	3.180	20.541	8.240
2022-08-11 15:30	4239004	8.244	-123.768	20.584	681.709	744.507	0.367	2.652	20.584	8.023
2022-08-11 15:45	4239904	8.230	-123.043	20.743	657.828	716.042	0.353	2.174	20.743	8.200
2022-08-11 16:00	4240804	8.303	-127.294	21.061	737.600	797.605	0.395	2.876	21.061	9.088
2022-08-11 16:15	4241704	8.326	-128.667	21.195	764.247	824.139	0.408	2.471	21.195	9.433
2022-08-11 16:30	4242604	8.299	-127.203	21.371	808.749	868.984	0.432	1.929	21.371	9.384
2022-08-11 16:45	4243504	8.273	-125.794	21.474	809.426	867.874	0.431	1.998	21.474	8.837
2022-08-11 17:00	4244404	8.296	-127.146	21.591	805.542	861.641	0.428	2.286	21.591	8.711
2022-08-11 17:15	4245304	8.274	-125.909	21.670	806.878	861.676	0.428	2.045	21.670	8.646
2022-08-11 17:30	4246204	8.316	-128.353	21.796	823.819	877.526	0.436	2.048	21.796	9.333
2022-08-11 17:45	4247104	8.276	-126.150	21.948	782.831	831.288	0.412	2.054	21.948	8.905
2022-08-11 18:00	4248004	8.290	-127.182	22.483	748.505	786.300	0.389	2.600	22.483	9.511
2022-08-11 18:15	4248904	8.238	-124.304	22.648	774.808	811.250	0.402	2.928	22.648	9.944
2022-08-11 18:30	4249804	8.317	-128.751	22.528	867.104	910.071	0.453	2.051	22.528	9.589
2022-08-11 18:45	4250704	8.354	-130.775	22.340	880.509	927.643	0.462	2.195	22.340	10.926
2022-08-11 19:00	4251604	8.325	-129.211	22.511	856.417	899.163	0.447	2.473	22.511	10.715
2022-08-11 19:15	4252504	8.305	-128.088	22.673	842.120	881.293	0.438	2.523	22.673	10.350
2022-08-11 19:30	4253404	8.268	-126.073	22.877	853.462	889.525	0.442	2.594	22.877	10.038
2022-08-11 19:45	4254304	8.249	-124.969	22.840	843.751	880.050	0.437	6.290	22.840	9.758
2022-08-11 20:00	4255204	8.236	-124.218	22.771	791.352	826.534	0.410	3.701	22.771	9.621
2022-08-11 20:15	4256104	8.236	-124.118	22.562	807.061	846.481	0.420	2.348	22.562	9.360
2022-08-11 20:30	4257004	8.199	-122.116	22.743	802.967	839.148	0.416	2.537	22.743	8.768
2022-08-11 20:45	4257904	8.182	-121.126	22.703	800.238	836.955	0.415	2.233	22.703	8.635
2022-08-11 21:00	4258804	8.150	-119.359	22.857	680.654	709.706	0.350	4.179	22.857	7.772
2022-08-11 21:15	4259704	8.116	-117.366	22.777	761.726	795.497	0.394	2.467	22.777	7.365
2022-08-11 21:30	4260604	8.101	-116.510	22.703	765.809	800.941	0.397	2.241	22.703	7.299
2022-08-11 21:45	4261504	8.083	-115.488	22.697	695.775	727.793	0.359	2.327	22.697	6.745
2022-08-11 22:00	4262404	8.020	-111.883	22.663	605.969	634.275	0.311	2.604	22.663	6.716
2022-08-11 22:15	4263304	8.040	-112.936	22.522	632.858	664.298	0.327	2.351	22.522	6.758
2022-08-11 22:30	4264204	8.001	-110.712	22.473	613.992	645.126	0.317	2.852	22.473	6.570
2022-08-11 22:45	4265104	7.898	-104.802	22.314	574.469	605.537	0.297	3.562	22.314	***6.232***
2022-08-11 23:00	4266004	7.870	-103.145	22.118	530.114	560.999	0.274	6.852	22.118	***5.434***
2022-08-11 23:15	4266904	7.904	-104.983	21.940	593.532	630.376	0.309	4.773	21.940	***5.352***
2022-08-11 23:30	4267804	7.880	-103.617	21.926	593.600	630.623	0.310	3.687	21.926	***5.089***
2022-08-11 23:45	4268704	7.913	-105.443	21.808	570.120	607.135	0.298	5.064	21.808	***5.110***
2022-08-12 0:00	4269604	7.996	-110.176	21.762	534.410	569.636	0.279	4.974	21.762	***5.570***
2022-08-12 0:15	4270504	8.019	-111.389	21.619	544.272	581.848	0.285	4.115	21.619	***5.890***
2022-08-12 0:30	4271404	8.040	-112.550	21.534	542.328	580.777	0.284	3.231	21.534	***5.855***
2022-08-12 0:45	4272304	8.031	-112.019	21.463	541.720	580.968	0.284	3.750	21.463	***5.892***
2022-08-12 1:00	4273204	8.022	-111.501	21.439	531.760	570.566	0.279	2.733	21.439	***5.941***
2022-08-12 1:15	4274104	8.018	-111.294	21.390	539.424	579.374	0.284	2.850	21.390	***5.783***
2022-08-12 1:30	4275004	7.984	-109.308	21.305	536.987	577.760	0.283	2.802	21.305	***5.660***
2022-08-12 1:45	4275904	7.980	-109.062	21.222	534.590	576.162	0.282	2.549	21.222	***5.508***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-12 2:00	4276804	7.946	-107.083	21.124	509.199	549.911	0.269	5.296	21.124	***5.356***
2022-08-12 2:15	4277704	7.969	-108.383	21.046	532.904	576.438	0.282	3.162	21.046	***5.224***
2022-08-12 2:30	4278604	7.993	-109.713	20.986	524.817	568.396	0.278	3.295	20.986	***5.220***
2022-08-12 2:45	4279504	7.914	-105.197	20.937	522.901	566.895	0.277	2.540	20.937	***5.132***
2022-08-12 3:00	4280404	8.014	-110.838	20.860	512.942	556.989	0.272	5.377	20.860	***5.126***
2022-08-12 3:15	4281304	7.994	-109.711	20.820	530.083	576.079	0.282	2.971	20.820	***5.392***
2022-08-12 3:30	4282204	7.947	-107.000	20.756	531.373	578.244	0.283	2.569	20.756	***5.318***
2022-08-12 3:45	4283104	7.929	-105.944	20.694	535.294	583.261	0.286	2.079	20.694	***5.259***
2022-08-12 4:00	4284004	7.933	-106.156	20.644	493.242	538.004	0.263	3.827	20.644	***5.073***
2022-08-12 4:15	4284904	7.994	-109.634	20.647	511.163	557.517	0.273	2.945	20.647	***5.381***
2022-08-12 4:30	4285804	8.003	-110.126	20.595	508.189	554.877	0.271	3.134	20.595	***5.329***
2022-08-12 4:45	4286704	7.971	-108.271	20.512	508.279	555.935	0.272	2.441	20.512	***5.333***
2022-08-12 5:00	4287604	7.979	-108.719	20.433	489.409	536.182	0.262	4.949	20.433	***5.249***
2022-08-12 5:15	4288504	8.008	-110.307	20.407	515.732	565.323	0.276	2.225	20.407	***5.213***
2022-08-12 5:30	4289404	7.984	-108.967	20.415	506.713	555.344	0.271	3.824	20.415	***5.252***
2022-08-12 5:45	4290304	7.982	-108.819	20.354	524.811	575.918	0.282	2.909	20.354	***5.342***
2022-08-12 6:00	4291204	8.005	-110.104	20.285	508.233	558.528	0.273	6.947	20.285	***5.398***
2022-08-12 6:15	4292104	7.971	-108.197	20.229	513.530	565.012	0.276	3.904	20.229	***5.345***
2022-08-12 6:30	4293004	7.965	-107.830	20.203	512.605	564.302	0.276	3.168	20.203	***5.202***
2022-08-12 6:45	4293904	7.932	-105.929	20.135	500.258	551.501	0.269	2.977	20.135	***4.985***
2022-08-12 7:00	4294804	7.905	-104.337	20.005	469.853	519.410	0.253	2.833	20.005	***4.897***
2022-08-12 7:15	4295704	7.870	-102.384	19.972	483.668	535.046	0.261	2.591	19.972	***4.632***
2022-08-12 7:30	4296604	7.890	-103.502	19.972	515.087	569.803	0.279	2.799	19.972	***4.611***
2022-08-12 7:45	4297504	7.893	-103.667	19.983	527.721	583.644	0.286	3.563	19.983	***4.622***
2022-08-12 8:00	4298404	7.867	-102.191	19.956	518.420	573.688	0.281	8.286	19.956	***4.632***
2022-08-12 8:15	4299304	7.900	-104.063	19.967	577.173	638.559	0.313	4.026	19.967	***4.484***
2022-08-12 8:30	4300204	7.913	-104.809	19.971	574.366	635.395	0.312	3.285	19.971	***4.786***
2022-08-12 8:45	4301104	7.900	-104.079	19.964	577.300	638.741	0.314	3.258	19.964	***4.848***
2022-08-12 9:00	4302004	7.891	-103.555	19.934	562.252	622.487	0.305	3.683	19.934	***4.857***
2022-08-12 9:15	4302904	7.878	-102.837	19.936	560.063	620.030	0.304	3.240	19.936	***5.218***
2022-08-12 9:30	4303804	7.911	-104.663	19.886	545.943	605.046	0.296	2.317	19.886	***5.395***
2022-08-12 9:45	4304704	7.935	-105.953	19.782	519.821	577.360	0.282	2.274	19.782	***4.794***
2022-08-12 10:00	4305604	7.876	-102.592	19.682	460.128	512.151	0.250	3.156	19.682	***4.932***
2022-08-12 10:15	4306504	7.835	-100.322	19.677	475.193	528.970	0.258	2.375	19.677	***5.094***
2022-08-12 10:30	4307404	7.810	-98.922	19.717	527.341	586.523	0.287	2.078	19.717	***4.773***
2022-08-12 10:45	4308304	7.886	-103.195	19.782	542.515	602.571	0.295	2.275	19.782	***4.364***
2022-08-12 11:00	4309204	7.889	-103.428	19.984	560.408	619.791	0.304	2.628	19.984	***4.679***
2022-08-12 11:15	4310104	7.949	-106.905	20.120	611.857	674.750	0.332	3.905	20.120	***5.626***
2022-08-12 11:30	4311004	8.024	-111.222	20.306	648.800	712.695	0.351	3.708	20.306	6.522
2022-08-12 11:45	4311904	8.017	-110.841	20.439	657.857	720.640	0.355	3.757	20.439	6.652
2022-08-12 12:00	4312804	8.035	-111.916	20.589	669.601	731.212	0.361	4.997	20.589	6.841
2022-08-12 12:15	4313704	8.014	-110.750	20.670	680.182	741.510	0.366	4.149	20.670	7.497
2022-08-12 12:30	4314604	8.063	-113.611	20.803	687.004	746.879	0.369	3.934	20.803	7.743
2022-08-12 12:45	4315504	8.068	-113.943	20.920	693.062	751.633	0.371	6.353	20.920	8.086

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-12 13:00	4316404	8.104	-116.055	21.103	703.604	760.191	0.376	4.684	21.103	8.382
2022-08-12 13:15	4317304	8.064	-113.807	21.233	696.614	750.622	0.371	4.035	21.233	8.376
2022-08-12 13:30	4318204	8.086	-115.058	21.179	699.512	754.585	0.373	4.366	21.179	8.066
2022-08-12 13:45	4319104	8.094	-115.552	21.319	711.471	765.275	0.378	3.306	21.319	8.354
2022-08-12 14:00	4320004	8.123	-117.271	21.562	715.716	766.019	0.379	4.250	21.562	8.728
2022-08-12 14:15	4320904	8.079	-114.818	21.571	717.755	768.061	0.380	3.881	21.571	8.663
2022-08-12 14:30	4321804	8.100	-116.005	21.614	715.259	764.716	0.378	3.172	21.614	8.882
2022-08-12 14:45	4322704	8.166	-119.843	21.763	722.772	770.405	0.381	3.541	21.763	9.223
2022-08-12 15:00	4323604	8.142	-118.623	22.106	725.001	767.422	0.379	4.229	22.106	9.248
2022-08-12 15:15	4324504	8.180	-120.788	22.138	730.401	772.635	0.382	4.443	22.138	9.204
2022-08-12 15:30	4325404	8.139	-118.563	22.457	730.556	767.856	0.380	3.776	22.457	8.926
2022-08-12 15:45	4326304	8.157	-119.600	22.472	744.758	782.550	0.387	3.054	22.472	9.377
2022-08-12 16:00	4327204	8.172	-120.537	22.618	750.079	785.826	0.389	5.460	22.618	9.897
2022-08-12 16:15	4328104	8.171	-120.490	22.660	749.298	784.357	0.388	3.785	22.660	10.613
2022-08-12 16:30	4329004	8.135	-118.396	22.617	744.826	780.344	0.386	3.623	22.617	10.651
2022-08-12 16:45	4329904	8.173	-120.544	22.584	739.311	775.073	0.383	3.893	22.584	9.681
2022-08-12 17:00	4330804	8.165	-120.168	22.748	742.673	776.049	0.384	4.412	22.748	9.950
2022-08-12 17:15	4331704	8.192	-121.934	23.249	758.782	785.039	0.388	4.604	23.249	10.921
2022-08-12 17:30	4332604	8.160	-120.170	23.502	759.153	781.520	0.387	3.591	23.502	11.380
2022-08-12 17:45	4333504	8.190	-121.801	23.289	749.414	774.739	0.383	3.722	23.289	10.541
2022-08-12 18:00	4334404	8.201	-122.471	23.422	749.991	773.295	0.382	5.286	23.422	10.995
2022-08-12 18:15	4335304	8.213	-123.117	23.215	742.406	768.608	0.380	3.773	23.215	10.949
2022-08-12 18:30	4336204	8.198	-122.240	23.241	733.520	759.018	0.375	3.984	23.241	11.209
2022-08-12 18:45	4337104	8.092	-115.690	21.980	882.314	936.324	0.466	12.000	21.980	8.772
2022-08-12 19:00	4338004	8.145	-118.275	20.906	1018.704	1105.129	0.554	12.337	20.906	7.302
2022-08-12 19:15	4338904	8.090	-114.968	20.345	1063.275	1167.025	0.586	12.441	20.345	6.951
2022-08-12 19:30	4339804	8.048	-112.591	20.360	1063.239	1166.619	0.586	6.984	20.360	6.626
2022-08-12 19:45	4340704	8.050	-112.746	20.530	1049.091	1147.016	0.576	5.972	20.530	6.709
2022-08-12 20:00	4341604	7.998	-109.825	20.539	1065.229	1164.448	0.585	6.840	20.539	***6.304***
2022-08-12 20:15	4342505	8.005	-110.199	20.551	1104.851	1207.443	0.608	9.058	20.551	***6.228***
2022-08-12 20:30	4343405	8.032	-111.721	20.474	1105.917	1210.559	0.609	9.562	20.474	***6.235***
2022-08-12 20:45	4344305	8.062	-113.475	20.649	1083.724	1181.956	0.594	10.295	20.649	***6.459***
2022-08-12 21:00	4345205	8.096	-115.459	20.806	1065.259	1158.014	0.582	7.345	20.806	6.538
2022-08-12 21:15	4346105	8.112	-116.441	20.925	1058.969	1148.356	0.577	5.877	20.925	6.579
2022-08-12 21:30	4347005	8.160	-119.193	21.013	1050.780	1137.405	0.571	6.229	21.013	6.553
2022-08-12 21:45	4347905	8.214	-122.228	20.975	1055.451	1143.344	0.574	6.549	20.975	***6.457***
2022-08-12 22:00	4348805	8.223	-122.712	20.909	1037.821	1125.776	0.565	11.055	20.909	6.649
2022-08-12 22:15	4349705	8.205	-121.615	20.786	1052.230	1144.338	0.575	7.051	20.786	6.684
2022-08-12 22:30	4350605	8.208	-121.760	20.615	1057.261	1153.904	0.580	9.091	20.615	6.689
2022-08-12 22:45	4351505	8.201	-121.310	20.483	1062.220	1162.514	0.584	6.601	20.483	6.666
2022-08-12 23:00	4352405	8.208	-121.610	20.345	1048.707	1151.046	0.578	7.538	20.345	6.659
2022-08-12 23:15	4353305	8.196	-120.869	20.155	1061.428	1169.663	0.588	8.643	20.155	6.626
2022-08-12 23:30	4354205	8.183	-120.077	20.054	1052.284	1162.052	0.584	6.273	20.054	6.632
2022-08-12 23:45	4355105	8.172	-119.414	19.950	1051.739	1164.015	0.585	5.717	19.950	6.550

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-13 0:00	4356005	8.185	-120.082	19.811	1045.574	1160.598	0.583	9.668	19.811	***6.482***
2022-08-13 0:15	4356905	8.163	-118.790	19.688	1050.576	1169.208	0.587	6.279	19.688	***6.440***
2022-08-13 0:30	4357805	8.164	-118.811	19.499	1062.034	1186.716	0.597	6.068	19.499	***6.432***
2022-08-13 0:45	4358705	8.159	-118.423	19.298	1076.298	1207.853	0.608	6.209	19.298	***6.394***
2022-08-13 1:00	4359605	8.170	-119.011	19.224	1071.104	1203.932	0.605	6.391	19.224	***6.423***
2022-08-13 1:15	4360505	8.159	-118.318	19.031	1085.647	1225.348	0.617	5.736	19.031	***6.358***
2022-08-13 1:30	4361405	8.156	-118.124	18.942	1083.637	1225.428	0.617	5.908	18.942	***6.295***
2022-08-13 1:45	4362305	8.157	-118.089	18.797	1091.749	1238.471	0.623	6.525	18.797	***6.150***
2022-08-13 2:00	4363205	8.171	-118.849	18.732	1090.962	1239.327	0.624	12.082	18.732	***6.264***
2022-08-13 2:15	4364105	8.154	-117.824	18.575	1101.925	1256.075	0.633	5.781	18.575	***6.214***
2022-08-13 2:30	4365005	8.157	-117.965	18.461	1109.090	1267.374	0.639	5.702	18.461	***6.213***
2022-08-13 2:45	4365905	8.159	-118.048	18.335	1117.180	1280.133	0.645	6.260	18.335	***6.219***
2022-08-13 3:00	4366805	8.175	-118.890	18.293	1103.304	1265.404	0.637	6.194	18.293	***6.316***
2022-08-13 3:15	4367705	8.162	-118.127	18.184	1113.518	1280.166	0.645	6.055	18.184	***6.278***
2022-08-13 3:30	4368605	8.162	-118.146	18.125	1114.307	1282.741	0.647	6.973	18.125	***6.240***
2022-08-13 3:45	4369505	8.155	-117.755	18.129	1088.967	1253.458	0.631	5.768	18.129	***6.251***
2022-08-13 4:00	4370405	8.175	-118.868	18.118	1074.791	1237.456	0.623	10.233	18.118	***6.308***
2022-08-13 4:15	4371305	8.161	-117.986	17.939	1097.453	1268.545	0.639	5.829	17.939	***6.228***
2022-08-13 4:30	4372205	8.155	-117.629	17.830	1103.946	1279.112	0.644	6.262	17.830	***6.083***
2022-08-13 4:45	4373105	8.150	-117.292	17.786	1102.918	1279.164	0.644	6.813	17.786	***6.154***
2022-08-13 5:00	4374005	8.173	-118.582	17.734	1092.540	1268.602	0.639	5.000	17.734	***6.137***
2022-08-13 5:15	4374905	8.160	-117.812	17.627	1101.165	1281.660	0.646	4.988	17.627	***6.058***
2022-08-13 5:30	4375805	8.158	-117.676	17.558	1095.940	1277.532	0.644	4.841	17.558	***5.955***
2022-08-13 5:45	4376705	8.159	-117.724	17.516	1095.427	1278.129	0.644	4.444	17.516	***5.940***
2022-08-13 6:00	4377605	8.175	-118.549	17.450	1095.577	1280.186	0.645	5.726	17.450	***5.916***
2022-08-13 6:15	4378505	8.153	-117.292	17.343	1092.720	1279.903	0.645	5.035	17.343	***6.121***
2022-08-13 6:30	4379405	8.149	-117.040	17.292	1094.930	1283.956	0.647	4.458	17.292	***6.130***
2022-08-13 6:45	4380305	8.154	-117.326	17.252	1097.099	1287.654	0.649	15.651	17.252	***5.998***
2022-08-13 7:00	4381205	8.167	-118.053	17.244	1095.559	1286.078	0.648	8.600	17.244	***5.980***
2022-08-13 7:15	4382105	8.149	-117.018	17.157	1100.613	1294.535	0.652	3.659	17.157	***5.933***
2022-08-13 7:30	4383005	8.156	-117.331	17.074	1104.735	1301.806	0.656	4.065	17.074	***6.014***
2022-08-13 7:45	4383905	8.148	-116.918	17.154	1097.585	1291.076	0.650	3.617	17.154	***5.872***
2022-08-13 8:00	4384805	8.164	-117.822	17.152	1093.227	1286.001	0.648	4.707	17.152	***5.831***
2022-08-13 8:15	4385705	8.140	-116.456	17.084	1095.066	1290.122	0.650	3.546	17.084	***5.835***
2022-08-13 8:30	4386605	8.141	-116.477	17.022	1091.142	1287.295	0.648	3.676	17.022	***5.811***
2022-08-13 8:45	4387505	8.122	-115.399	16.984	1086.071	1282.421	0.646	10.788	16.984	***5.803***
2022-08-13 9:00	4388405	8.156	-117.333	16.957	1077.097	1272.585	0.641	5.528	16.957	***5.885***
2022-08-13 9:15	4389305	8.141	-116.456	16.945	1077.555	1273.489	0.641	3.974	16.945	***5.899***
2022-08-13 9:30	4390205	8.152	-117.056	16.914	1074.154	1270.363	0.639	3.002	16.914	***5.951***
2022-08-13 9:45	4391105	8.158	-117.435	16.945	1073.507	1268.702	0.639	3.029	16.945	***5.993***
2022-08-13 10:00	4392005	8.163	-117.683	16.974	1073.464	1267.806	0.638	4.469	16.974	***5.931***
2022-08-13 10:15	4392905	8.149	-116.909	16.992	1073.693	1267.578	0.638	2.924	16.992	***5.847***
2022-08-13 10:30	4393805	8.140	-116.432	17.014	1073.673	1266.911	0.638	3.038	17.014	***5.878***
2022-08-13 10:45	4394705	8.137	-116.279	17.076	1071.024	1262.031	0.635	2.930	17.076	***5.859***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-13 11:00	4395605	8.151	-117.111	17.161	1068.949	1257.177	0.633	3.486	17.161	***5.820***
2022-08-13 11:15	4396505	8.139	-116.456	17.213	1069.881	1256.810	0.632	2.870	17.213	***5.801***
2022-08-13 11:30	4397405	8.140	-116.553	17.318	1073.045	1257.565	0.633	2.799	17.318	***5.826***
2022-08-13 11:45	4398305	8.154	-117.376	17.447	1072.570	1253.375	0.631	2.669	17.447	6.502
2022-08-13 12:00	4399205	8.174	-118.563	17.583	1071.296	1248.095	0.628	4.211	17.583	6.556
2022-08-13 12:15	4400105	8.149	-117.223	17.665	1072.507	1247.237	0.628	2.852	17.665	***6.491***
2022-08-13 12:30	4401005	8.155	-117.609	17.775	1071.643	1243.210	0.626	3.501	17.775	***6.472***
2022-08-13 12:45	4401905	8.162	-118.012	17.875	1069.424	1237.888	0.623	2.829	17.875	6.810
2022-08-13 13:00	4402805	8.177	-118.935	17.998	1067.606	1232.420	0.620	2.909	17.998	7.194
2022-08-13 13:15	4403705	8.198	-120.127	18.094	1065.741	1227.677	0.618	2.626	18.094	7.539
2022-08-13 13:30	4404605	8.250	-123.074	18.175	1074.761	1235.872	0.622	2.656	18.175	7.604
2022-08-13 13:45	4405505	8.250	-123.138	18.292	1065.914	1222.558	0.615	2.877	18.292	7.980
2022-08-13 14:00	4406405	8.263	-123.916	18.396	1075.708	1230.993	0.619	7.972	18.396	7.810
2022-08-13 14:15	4407305	8.268	-124.183	18.430	1083.574	1239.063	0.624	2.501	18.430	8.150
2022-08-13 14:30	4408205	8.263	-123.959	18.524	1086.038	1239.335	0.624	2.667	18.524	7.960
2022-08-13 14:45	4409105	8.238	-122.588	18.607	1104.651	1258.288	0.634	2.619	18.607	7.999
2022-08-13 15:00	4410005	8.276	-124.781	18.756	1104.933	1254.546	0.632	3.782	18.756	8.159
2022-08-13 15:15	4410905	8.273	-124.657	18.841	1126.640	1276.835	0.644	2.894	18.841	8.160
2022-08-13 15:30	4411805	8.297	-126.021	18.927	1131.063	1279.482	0.645	2.678	18.927	8.520
2022-08-13 15:45	4412705	8.299	-126.190	19.029	1142.625	1289.718	0.651	2.823	19.029	8.439
2022-08-13 16:00	4413605	8.294	-125.892	18.941	1148.042	1298.277	0.655	4.429	18.941	8.414
2022-08-13 16:15	4414505	8.264	-124.168	18.921	1143.872	1294.129	0.653	4.194	18.921	8.294
2022-08-13 16:30	4415405	8.262	-124.099	18.968	1144.856	1293.923	0.653	4.153	18.968	8.447
2022-08-13 16:45	4416305	8.270	-124.598	19.069	1150.156	1297.081	0.654	3.611	19.069	8.544
2022-08-13 17:00	4417205	8.282	-125.244	19.069	1152.030	1299.210	0.656	3.766	19.069	8.395
2022-08-13 17:15	4418105	8.271	-124.624	19.094	1152.206	1298.718	0.655	3.352	19.094	8.500
2022-08-13 17:30	4419005	8.273	-124.769	19.132	1152.196	1297.627	0.655	3.210	19.132	8.418
2022-08-13 17:45	4419905	8.256	-123.880	19.273	1156.992	1299.092	0.656	2.681	19.273	8.179
2022-08-13 18:00	4420805	8.277	-125.065	19.270	1150.291	1291.656	0.652	4.372	19.270	8.137
2022-08-13 18:15	4421705	8.247	-123.250	19.044	1136.828	1282.750	0.647	4.118	19.044	8.109
2022-08-13 18:30	4422605	8.248	-123.286	18.977	1138.795	1286.838	0.649	3.457	18.977	7.877
2022-08-13 18:45	4423505	8.269	-124.550	19.071	1139.193	1284.683	0.648	3.347	19.071	7.816
2022-08-13 19:00	4424405	8.281	-125.191	19.060	1142.695	1288.932	0.650	2.865	19.060	7.654
2022-08-13 19:15	4425305	8.248	-123.370	19.096	1141.981	1287.118	0.649	2.576	19.096	7.759
2022-08-13 19:30	4426205	8.231	-122.416	19.174	1139.784	1282.490	0.647	2.319	19.174	7.588
2022-08-13 19:45	4427105	8.241	-123.048	19.260	1117.089	1254.635	0.632	3.146	19.260	7.247
2022-08-13 20:00	4428005	8.253	-123.758	19.360	1102.069	1235.114	0.622	2.790	19.360	7.099
2022-08-13 20:15	4428905	8.225	-122.185	19.377	1103.385	1236.137	0.622	2.474	19.377	7.047
2022-08-13 20:30	4429805	8.215	-121.613	19.403	1103.071	1235.099	0.622	2.248	19.403	7.041
2022-08-13 20:45	4430705	8.215	-121.613	19.410	1109.599	1242.234	0.626	2.317	19.410	6.978
2022-08-13 21:00	4431605	8.222	-122.006	19.422	1105.339	1237.136	0.623	2.623	19.422	6.868
2022-08-13 21:15	4432505	8.196	-120.544	19.377	1113.389	1247.351	0.628	2.423	19.377	6.836
2022-08-13 21:30	4433405	8.194	-120.444	19.356	1114.873	1249.566	0.629	2.643	19.356	6.728
2022-08-13 21:45	4434305	8.195	-120.468	19.366	1115.862	1250.415	0.630	2.214	19.366	6.783

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-13 22:00	4435205	8.198	-120.661	19.353	1107.738	1241.661	0.625	2.662	19.353	6.710
2022-08-13 22:15	4436105	8.174	-119.259	19.323	1114.580	1250.142	0.630	2.398	19.323	6.520
2022-08-13 22:30	4437005	8.156	-118.265	19.303	1114.461	1250.546	0.630	2.181	19.303	***6.316***
2022-08-13 22:45	4437905	8.156	-118.244	19.299	1115.809	1252.154	0.631	1.983	19.299	***6.327***
2022-08-13 23:00	4438805	8.156	-118.258	19.284	1107.228	1242.912	0.626	2.701	19.284	***6.127***
2022-08-13 23:15	4439705	8.145	-117.626	19.250	1106.514	1243.042	0.626	2.402	19.250	***6.002***
2022-08-13 23:30	4440605	8.132	-116.835	19.192	1106.874	1244.987	0.627	2.159	19.192	***5.913***
2022-08-13 23:45	4441505	8.123	-116.358	19.146	1104.802	1243.879	0.626	1.800	19.146	***5.757***
2022-08-14 0:00	4442405	8.145	-117.536	19.081	1084.164	1222.356	0.615	3.087	19.081	***5.601***
2022-08-14 0:15	4443305	8.134	-116.906	19.030	1085.759	1225.508	0.617	2.058	19.030	***5.768***
2022-08-14 0:30	4444205	8.123	-116.298	19.007	1083.136	1223.134	0.615	2.015	19.007	***5.953***
2022-08-14 0:45	4445105	8.120	-116.117	18.977	1085.603	1226.731	0.617	2.355	18.977	***6.046***
2022-08-14 1:00	4446005	8.139	-117.121	18.914	1068.512	1209.062	0.608	3.318	18.914	***5.775***
2022-08-14 1:15	4446905	8.125	-116.293	18.787	1064.025	1207.294	0.607	1.849	18.787	***5.624***
2022-08-14 1:30	4447805	8.133	-116.737	18.745	1062.927	1207.148	0.607	2.605	18.745	***5.673***
2022-08-14 1:45	4448705	8.131	-116.596	18.722	1057.373	1201.445	0.604	1.869	18.722	***5.627***
2022-08-14 2:00	4449605	8.162	-118.370	18.726	1043.459	1185.530	0.596	3.187	18.726	***5.563***
2022-08-14 2:15	4450505	8.142	-117.207	18.648	1044.603	1188.846	0.597	2.281	18.648	***5.524***
2022-08-14 2:30	4451405	8.141	-117.111	18.593	1036.216	1180.691	0.593	2.333	18.593	***5.492***
2022-08-14 2:45	4452305	8.140	-117.030	18.537	1024.147	1168.375	0.587	3.002	18.537	***5.496***
2022-08-14 3:00	4453205	8.152	-117.733	18.543	1012.285	1154.696	0.579	3.702	18.543	***5.427***
2022-08-14 3:15	4454105	8.136	-116.813	18.509	1021.090	1165.589	0.585	3.071	18.509	***5.533***
2022-08-14 3:30	4455005	8.135	-116.725	18.448	1008.713	1153.014	0.579	2.411	18.448	***5.464***
2022-08-14 3:45	4455905	8.136	-116.763	18.426	1011.471	1156.714	0.580	2.230	18.426	***5.390***
2022-08-14 4:00	4456805	8.146	-117.345	18.433	998.464	1141.659	0.573	2.834	18.433	***5.308***
2022-08-14 4:15	4457705	8.128	-116.255	18.299	994.937	1140.973	0.572	4.021	18.299	***5.257***
2022-08-14 4:30	4458605	8.129	-116.324	18.273	990.804	1136.886	0.570	3.656	18.273	***5.286***
2022-08-14 4:45	4459505	8.118	-115.709	18.248	985.975	1131.950	0.567	2.746	18.248	***5.294***
2022-08-14 5:00	4460405	8.130	-116.343	18.240	976.029	1120.728	0.562	3.287	18.240	***5.158***
2022-08-14 5:15	4461305	8.118	-115.669	18.151	977.011	1124.053	0.563	4.184	18.151	***5.222***
2022-08-14 5:30	4462205	8.108	-115.108	18.129	981.062	1129.256	0.566	2.581	18.129	***5.103***
2022-08-14 5:45	4463105	8.093	-114.233	18.081	968.600	1116.104	0.559	4.293	18.081	***5.054***
2022-08-14 6:00	4464005	8.135	-116.549	18.042	958.243	1105.108	0.553	5.023	18.042	***5.241***
2022-08-14 6:15	4464905	8.102	-114.694	17.971	965.069	1114.715	0.558	2.680	17.971	***5.111***
2022-08-14 6:30	4465805	8.094	-114.238	17.993	968.322	1117.949	0.560	2.304	17.993	***5.063***
2022-08-14 6:45	4466705	8.081	-113.537	18.003	973.159	1123.277	0.563	3.442	18.003	***5.017***
2022-08-14 7:00	4467605	8.085	-113.733	18.010	952.323	1099.061	0.550	3.255	18.010	***4.915***
2022-08-14 7:15	4468505	8.063	-112.522	17.958	962.471	1112.037	0.557	2.191	17.958	***4.850***
2022-08-14 7:30	4469405	8.090	-113.981	17.931	963.321	1113.689	0.558	3.090	17.931	***4.885***
2022-08-14 7:45	4470305	8.075	-113.134	17.911	967.003	1118.440	0.560	3.513	17.911	***4.844***
2022-08-14 8:00	4471205	8.081	-113.494	17.908	950.118	1098.990	0.550	3.796	17.908	***4.786***
2022-08-14 8:15	4472105	8.071	-112.925	17.897	952.903	1102.468	0.552	3.287	17.897	***4.874***
2022-08-14 8:30	4473005	8.064	-112.545	17.872	950.562	1100.373	0.551	2.700	17.872	***5.473***
2022-08-14 8:45	4473905	8.073	-113.034	17.829	954.943	1106.483	0.554	3.476	17.829	***5.211***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-14 9:00	4474805	8.091	-113.971	17.778	926.272	1074.498	0.537	3.435	17.778	***5.435***
2022-08-14 9:15	4475705	8.102	-114.639	17.778	933.282	1082.610	0.542	3.120	17.778	***5.718***
2022-08-14 9:30	4476605	8.129	-116.119	17.751	932.108	1081.899	0.541	3.324	17.751	***5.912***
2022-08-14 9:45	4477505	8.132	-116.305	17.766	938.586	1089.062	0.545	2.730	17.766	***5.871***
2022-08-14 10:00	4478405	8.152	-117.447	17.802	937.336	1086.747	0.544	3.225	17.802	***6.029***
2022-08-14 10:15	4479305	8.114	-115.309	17.809	947.477	1098.324	0.550	3.192	17.809	***5.922***
2022-08-14 10:30	4480205	8.112	-115.223	17.852	962.921	1115.172	0.559	2.786	17.852	***5.893***
2022-08-14 10:45	4481105	8.092	-114.129	17.918	984.488	1138.476	0.571	3.676	17.918	***5.969***
2022-08-14 11:00	4482005	8.123	-115.879	18.006	989.208	1141.715	0.572	4.529	18.006	***5.882***
2022-08-14 11:15	4482905	8.118	-115.619	18.027	991.036	1143.309	0.573	3.816	18.027	***6.100***
2022-08-14 11:30	4483805	8.110	-115.190	18.043	994.196	1146.553	0.575	3.627	18.043	***6.201***
2022-08-14 11:45	4484705	8.127	-116.119	18.067	995.712	1147.696	0.576	3.485	18.067	***6.154***
2022-08-14 12:00	4485605	8.151	-117.497	18.111	993.428	1143.940	0.574	3.567	18.111	***6.177***
2022-08-14 12:15	4486505	8.146	-117.214	18.094	991.932	1142.658	0.573	3.060	18.094	***6.317***
2022-08-14 12:30	4487405	8.143	-117.066	18.101	991.124	1141.545	0.572	2.755	18.101	***6.348***
2022-08-14 12:45	4488305	8.146	-117.204	18.054	988.256	1139.422	0.571	3.374	18.054	***6.331***
2022-08-14 13:00	4489205	8.164	-118.191	18.059	990.375	1141.746	0.573	4.001	18.059	***6.421***
2022-08-14 13:15	4490105	8.150	-117.373	17.947	979.920	1132.482	0.568	3.107	17.947	***6.410***
2022-08-14 13:30	4491005	8.154	-117.555	17.831	975.150	1129.864	0.566	3.825	17.831	6.509
2022-08-14 13:45	4491905	8.170	-118.456	17.816	975.756	1130.928	0.567	3.000	17.816	6.616
2022-08-14 14:00	4492805	8.173	-118.623	17.892	984.518	1139.175	0.571	4.269	17.892	6.598
2022-08-14 14:15	4493705	8.141	-116.882	17.950	986.241	1139.716	0.571	4.010	17.950	6.524
2022-08-14 14:30	4494605	8.131	-116.358	18.079	994.634	1146.135	0.575	3.808	18.079	***6.469***
2022-08-14 14:45	4495505	8.138	-116.789	18.223	989.406	1136.508	0.570	4.354	18.223	***6.499***
2022-08-14 15:00	4496405	8.159	-118.027	18.320	974.471	1116.988	0.560	5.122	18.320	6.562
2022-08-14 15:15	4497305	8.164	-118.327	18.303	971.465	1113.964	0.558	8.288	18.303	6.754
2022-08-14 15:30	4498205	8.172	-118.744	18.281	965.634	1107.807	0.555	3.892	18.281	6.811
2022-08-14 15:45	4499105	8.174	-118.825	18.224	965.577	1109.120	0.556	3.579	18.224	6.813
2022-08-14 16:00	4500005	8.184	-119.414	18.209	963.988	1107.648	0.555	5.053	18.209	6.892
2022-08-14 16:15	4500905	8.173	-118.775	18.274	970.150	1113.144	0.558	3.907	18.274	6.986
2022-08-14 16:30	4501805	8.173	-118.809	18.359	967.969	1108.589	0.555	4.877	18.359	6.976
2022-08-14 16:45	4502705	8.183	-119.433	18.452	960.351	1097.632	0.550	4.162	18.452	7.252
2022-08-14 17:00	4503605	8.221	-121.531	18.432	953.160	1089.885	0.546	4.490	18.432	7.429
2022-08-14 17:15	4504505	8.220	-121.467	18.380	959.701	1098.620	0.550	3.726	18.380	7.577
2022-08-14 17:30	4505405	8.218	-121.400	18.470	958.838	1095.458	0.548	5.358	18.470	7.744
2022-08-14 17:45	4506305	8.232	-122.252	18.557	952.116	1085.731	0.543	4.388	18.557	7.925
2022-08-14 18:00	4507205	8.246	-123.079	18.661	947.891	1078.464	0.540	4.748	18.661	8.016
2022-08-14 18:15	4508105	8.222	-121.703	18.710	942.350	1071.023	0.536	3.868	18.710	7.919
2022-08-14 18:30	4509005	8.245	-123.043	18.726	938.021	1065.721	0.533	4.195	18.726	7.993
2022-08-14 18:45	4509905	8.229	-122.132	18.688	942.367	1071.550	0.536	4.214	18.688	7.879
2022-08-14 19:00	4510805	8.222	-121.777	18.762	941.660	1069.023	0.535	3.718	18.762	7.784
2022-08-14 19:15	4511705	8.213	-121.267	18.812	939.162	1065.050	0.533	4.014	18.812	7.923
2022-08-14 19:30	4512605	8.211	-121.162	18.855	935.489	1059.895	0.530	3.428	18.855	7.955
2022-08-14 19:45	4513505	8.210	-121.133	18.867	928.700	1051.913	0.526	3.743	18.867	7.942

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-14 20:00	4514405	8.231	-122.280	18.859	916.334	1038.095	0.519	3.819	18.859	7.894
2022-08-14 20:15	4515305	8.218	-121.562	18.842	914.582	1036.491	0.518	3.584	18.842	7.765
2022-08-14 20:30	4516205	8.204	-120.769	18.847	910.696	1031.975	0.516	3.455	18.847	7.695
2022-08-14 20:45	4517105	8.194	-120.234	18.852	908.919	1029.842	0.514	3.311	18.852	7.688
2022-08-14 21:00	4518005	8.214	-121.353	18.838	902.451	1022.821	0.511	3.880	18.838	7.715
2022-08-14 21:15	4518905	8.203	-120.714	18.826	906.787	1028.007	0.513	3.425	18.826	7.775
2022-08-14 21:30	4519805	8.188	-119.839	18.810	910.011	1032.027	0.516	2.776	18.810	7.712
2022-08-14 21:45	4520705	8.173	-118.983	18.783	913.197	1036.236	0.518	2.489	18.783	7.432
2022-08-14 22:00	4521605	8.189	-119.901	18.743	901.600	1023.970	0.511	3.411	18.743	7.363
2022-08-14 22:15	4522505	8.188	-119.812	18.632	913.720	1040.240	0.520	2.805	18.632	7.175
2022-08-14 22:30	4523405	8.198	-120.335	18.569	907.487	1034.575	0.517	2.770	18.569	7.102
2022-08-14 22:45	4524305	8.188	-119.751	18.585	905.949	1032.444	0.516	2.506	18.585	7.098
2022-08-14 23:00	4525205	8.192	-119.958	18.560	890.359	1015.227	0.507	3.578	18.560	7.120
2022-08-14 23:15	4526105	8.179	-119.276	18.554	896.594	1022.482	0.511	3.239	18.554	7.171
2022-08-14 23:30	4527005	8.167	-118.597	18.569	886.693	1010.850	0.504	5.794	18.569	7.111
2022-08-14 23:45	4527905	8.169	-118.721	18.577	885.656	1009.500	0.504	3.514	18.577	7.081
2022-08-15 0:00	4528805	8.184	-119.550	18.540	875.685	998.948	0.498	4.042	18.540	6.917
2022-08-15 0:15	4529705	8.163	-118.341	18.485	879.252	1004.222	0.501	3.552	18.485	6.762
2022-08-15 0:30	4530605	8.153	-117.753	18.416	876.917	1003.064	0.500	3.025	18.416	6.701
2022-08-15 0:45	4531505	8.138	-116.889	18.388	876.841	1003.587	0.501	2.537	18.388	6.615
2022-08-15 1:00	4532405	8.151	-117.624	18.390	871.441	997.350	0.497	3.673	18.390	6.528
2022-08-15 1:15	4533305	8.139	-116.897	18.360	873.139	999.951	0.499	2.856	18.360	6.678
2022-08-15 1:30	4534205	8.123	-116.014	18.294	874.095	1002.508	0.500	3.385	18.294	***6.385***
2022-08-15 1:45	4535105	8.145	-117.226	18.271	872.750	1001.457	0.500	3.395	18.271	***6.266***
2022-08-15 2:00	4536005	8.150	-117.502	18.219	865.737	994.553	0.496	4.682	18.219	***6.347***
2022-08-15 2:15	4536905	8.130	-116.343	18.183	865.756	995.346	0.496	3.513	18.183	***6.277***
2022-08-15 2:30	4537805	8.124	-115.964	18.140	865.899	996.453	0.497	2.816	18.140	***6.188***
2022-08-15 2:45	4538705	8.119	-115.728	18.141	869.916	1001.052	0.499	2.710	18.141	***6.061***
2022-08-15 3:00	4539605	8.138	-116.801	18.173	872.946	1003.845	0.501	4.926	18.173	***6.177***
2022-08-15 3:15	4540505	8.126	-116.112	18.107	873.803	1006.285	0.502	3.167	18.107	***6.305***
2022-08-15 3:30	4541405	8.117	-115.566	18.083	875.776	1009.085	0.503	4.424	18.083	***6.165***
2022-08-15 3:45	4542305	8.085	-113.790	18.038	873.688	1007.674	0.503	3.220	18.038	***6.069***
2022-08-15 4:00	4543205	8.118	-115.602	18.062	878.015	1012.150	0.505	6.443	18.062	***6.028***
2022-08-15 4:15	4544105	8.115	-115.411	18.002	876.877	1012.159	0.505	4.046	18.002	***6.161***
2022-08-15 4:30	4545005	8.097	-114.431	17.983	878.169	1014.087	0.506	4.443	17.983	***6.079***
2022-08-15 4:45	4545905	8.101	-114.641	17.947	877.138	1013.686	0.506	4.284	17.947	***5.995***
2022-08-15 5:00	4546805	8.111	-115.161	17.938	875.047	1011.489	0.505	4.120	17.938	***5.905***
2022-08-15 5:15	4547705	8.098	-114.417	17.890	874.006	1011.344	0.505	4.877	17.890	***6.069***
2022-08-15 5:30	4548605	8.092	-114.083	17.839	873.328	1011.701	0.505	5.092	17.839	***5.865***
2022-08-15 5:45	4549505	8.080	-113.389	17.780	871.709	1011.152	0.504	3.991	17.780	***5.868***
2022-08-15 6:00	4550405	8.122	-115.728	17.740	870.369	1010.494	0.504	5.024	17.740	***5.786***
2022-08-15 6:15	4551305	8.106	-114.789	17.708	870.389	1011.224	0.504	3.639	17.708	***5.861***
2022-08-15 6:30	4552205	8.111	-115.085	17.710	879.594	1021.879	0.510	4.717	17.710	***6.048***
2022-08-15 6:45	4553105	8.101	-114.515	17.722	880.574	1022.736	0.510	3.112	17.722	***6.008***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-15 7:00	4554005	8.116	-115.402	17.740	880.549	1022.301	0.510	4.002	17.740	***6.085***
2022-08-15 7:15	4554905	8.106	-114.808	17.720	877.611	1019.350	0.509	3.387	17.720	***5.999***
2022-08-15 7:30	4555805	8.090	-113.912	17.668	876.954	1019.761	0.509	3.973	17.668	***5.899***
2022-08-15 7:45	4556705	8.070	-112.786	17.649	876.801	1020.013	0.509	3.729	17.649	***5.742***
2022-08-15 8:00	4557605	8.109	-114.951	17.650	881.773	1025.783	0.512	7.415	17.650	***5.700***
2022-08-15 8:15	4558505	8.095	-114.148	17.599	879.639	1024.464	0.511	3.913	17.599	***5.957***
2022-08-15 8:30	4559405	8.099	-114.384	17.570	877.908	1023.110	0.511	3.335	17.570	***5.879***
2022-08-15 8:45	4560305	8.095	-114.145	17.561	879.085	1024.666	0.511	3.119	17.561	***5.888***
2022-08-15 9:00	4561205	8.115	-115.278	17.569	881.266	1027.028	0.513	3.310	17.569	***5.890***
2022-08-15 9:15	4562105	8.100	-114.412	17.528	879.078	1025.416	0.512	3.821	17.528	***5.971***
2022-08-15 9:30	4563005	8.099	-114.350	17.506	877.762	1024.387	0.511	3.955	17.506	***5.981***
2022-08-15 9:45	4563905	8.082	-113.399	17.498	877.062	1023.747	0.511	3.662	17.498	***5.911***
2022-08-15 10:00	4564805	8.097	-114.219	17.475	870.004	1016.037	0.507	4.191	17.475	***5.715***
2022-08-15 10:15	4565705	8.081	-113.320	17.437	869.826	1016.695	0.507	3.730	17.437	***5.698***
2022-08-15 10:30	4566605	8.071	-112.760	17.429	869.011	1015.927	0.507	3.578	17.429	***5.820***
2022-08-15 10:45	4567505	8.072	-112.779	17.412	865.938	1012.721	0.505	2.924	17.412	***6.031***
2022-08-15 11:00	4568405	8.082	-113.366	17.448	847.868	990.779	0.494	4.142	17.448	***5.988***
2022-08-15 11:15	4569305	8.094	-114.048	17.520	848.535	989.976	0.493	3.936	17.520	***6.138***
2022-08-15 11:30	4570205	8.103	-114.584	17.568	849.612	990.166	0.493	3.303	17.568	***6.286***
2022-08-15 11:45	4571105	8.114	-115.213	17.573	847.498	987.588	0.492	3.947	17.573	***6.470***
2022-08-15 12:00	4572005	8.150	-117.230	17.557	826.538	963.503	0.480	4.225	17.557	6.698
2022-08-15 12:15	4572905	8.130	-116.088	17.562	836.621	975.168	0.486	3.763	17.562	6.626
2022-08-15 12:30	4573805	8.158	-117.636	17.551	800.646	933.447	0.464	3.649	17.551	6.783
2022-08-15 12:45	4574705	8.164	-118.012	17.558	781.428	910.916	0.452	3.499	17.558	6.796
2022-08-15 13:00	4575605	8.172	-118.482	17.650	767.325	892.646	0.443	3.847	17.650	6.772
2022-08-15 13:15	4576505	8.169	-118.363	17.717	768.014	892.118	0.443	3.546	17.717	6.856
2022-08-15 13:30	4577405	8.171	-118.506	17.772	759.786	881.471	0.437	4.002	17.772	6.836
2022-08-15 13:45	4578305	8.155	-117.588	17.830	758.999	879.429	0.436	3.953	17.830	6.931
2022-08-15 14:00	4579205	8.188	-119.526	17.973	758.200	875.741	0.434	4.203	17.973	7.098
2022-08-15 14:15	4580105	8.162	-118.113	18.083	757.168	872.433	0.433	3.721	18.083	7.326
2022-08-15 14:30	4581005	8.210	-120.873	18.243	762.416	875.397	0.434	3.440	18.243	7.477
2022-08-15 14:45	4581905	8.207	-120.749	18.345	761.649	872.558	0.433	3.524	18.345	7.717
2022-08-15 15:00	4582805	8.220	-121.503	18.468	770.348	880.166	0.437	3.769	18.468	7.832
2022-08-15 15:15	4583705	8.207	-120.842	18.590	766.985	873.982	0.434	3.773	18.590	7.906
2022-08-15 15:30	4584605	8.221	-121.713	18.784	768.609	872.149	0.433	3.611	18.784	7.881
2022-08-15 15:45	4585505	8.206	-120.907	18.951	770.419	871.057	0.432	3.505	18.951	8.102
2022-08-15 16:00	4586405	8.224	-122.063	19.172	772.546	869.309	0.431	3.724	19.172	8.096
2022-08-15 16:15	4587305	8.229	-122.364	19.244	775.176	870.919	0.432	3.825	19.244	8.299
2022-08-15 16:30	4588205	8.199	-120.692	19.345	775.776	869.721	0.432	3.239	19.345	8.294
2022-08-15 16:45	4589105	8.196	-120.590	19.488	781.371	873.309	0.434	3.085	19.488	8.567
2022-08-15 17:00	4590005	8.218	-121.942	19.702	787.803	876.497	0.435	3.444	19.702	8.625
2022-08-15 17:15	4590905	8.234	-122.864	19.799	795.995	883.785	0.439	3.103	19.799	8.465
2022-08-15 17:30	4591805	8.238	-123.076	19.836	793.348	880.158	0.437	3.454	19.836	8.670
2022-08-15 17:45	4592705	8.241	-123.312	19.872	789.992	875.764	0.435	3.155	19.872	8.580

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-15 18:00	4593605	8.234	-122.964	19.989	786.687	869.952	0.432	3.430	19.989	8.777
2022-08-15 18:15	4594505	8.219	-122.130	20.085	785.304	866.659	0.430	3.406	20.085	8.924
2022-08-15 18:30	4595405	8.225	-122.516	20.252	782.317	860.343	0.427	3.311	20.252	8.982
2022-08-15 18:45	4596305	8.218	-122.221	20.389	779.563	854.848	0.424	3.197	20.389	9.088
2022-08-15 19:00	4597205	8.239	-123.439	20.530	776.664	849.166	0.421	3.553	20.530	9.075
2022-08-15 19:15	4598105	8.239	-123.503	20.600	776.473	847.722	0.420	3.661	20.600	9.168
2022-08-15 19:30	4599005	8.242	-123.699	20.650	778.806	849.376	0.421	2.868	20.650	9.117
2022-08-15 19:45	4599905	8.236	-123.329	20.690	781.094	851.167	0.422	3.331	20.690	9.150
2022-08-15 20:00	4600805	8.233	-123.205	20.687	785.139	855.626	0.425	2.997	20.687	8.926
2022-08-15 20:15	4601705	8.217	-122.271	20.662	799.395	871.611	0.433	2.825	20.662	8.865
2022-08-15 20:30	4602605	8.210	-121.863	20.673	786.744	857.631	0.426	3.112	20.673	8.983
2022-08-15 20:45	4603505	8.190	-120.771	20.723	776.924	846.039	0.420	2.591	20.723	8.754
2022-08-15 21:00	4604405	8.229	-122.993	20.815	767.983	834.706	0.414	3.002	20.815	8.949
2022-08-15 21:15	4605305	8.232	-123.198	20.819	767.745	834.374	0.414	2.960	20.819	8.870
2022-08-15 21:30	4606205	8.198	-121.217	20.754	774.161	842.479	0.418	2.676	20.754	8.557
2022-08-15 21:45	4607105	8.183	-120.356	20.728	774.576	843.397	0.418	3.090	20.728	8.333
2022-08-15 22:00	4608005	8.177	-120.003	20.669	765.725	834.784	0.414	3.564	20.669	8.202
2022-08-15 22:15	4608905	8.143	-118.039	20.616	772.882	843.512	0.418	3.318	20.616	8.031
2022-08-15 22:30	4609805	8.141	-117.939	20.623	771.935	842.358	0.418	2.981	20.623	7.891
2022-08-15 22:45	4610705	8.120	-116.768	20.605	771.361	842.042	0.418	2.853	20.605	7.855
2022-08-15 23:00	4611605	8.109	-116.119	20.549	764.002	834.989	0.414	3.352	20.549	7.629
2022-08-15 23:15	4612505	8.100	-115.571	20.487	773.330	846.284	0.420	3.479	20.487	7.349
2022-08-15 23:30	4613405	8.084	-114.636	20.382	769.725	844.183	0.419	3.156	20.382	7.281
2022-08-15 23:45	4614305	8.079	-114.288	20.263	762.081	837.883	0.415	2.885	20.263	7.062
2022-08-16 0:00	4615205	8.096	-115.232	20.248	757.471	833.084	0.413	4.538	20.248	6.783
2022-08-16 0:15	4616105	8.099	-115.426	20.215	756.963	833.095	0.413	3.100	20.215	6.698
2022-08-16 0:30	4617005	8.110	-115.998	20.212	755.974	832.075	0.412	2.716	20.212	6.617
2022-08-16 0:45	4617905	8.093	-115.080	20.227	756.831	832.742	0.413	2.804	20.227	6.656
2022-08-16 1:00	4618805	8.091	-114.949	20.235	759.386	835.418	0.414	3.444	20.235	6.536
2022-08-16 1:15	4619705	8.087	-114.751	20.231	761.379	837.675	0.415	3.240	20.231	6.853
2022-08-16 1:30	4620605	8.056	-112.989	20.226	764.534	841.239	0.417	2.869	20.226	6.666
2022-08-16 1:45	4621505	8.041	-112.143	20.197	764.152	841.340	0.417	4.003	20.197	6.564
2022-08-16 2:00	4622405	8.030	-111.494	20.157	762.802	840.558	0.417	5.592	20.157	***6.300***
2022-08-16 2:15	4623305	8.011	-110.371	20.115	764.554	843.234	0.418	3.596	20.115	***6.112***
2022-08-16 2:30	4624205	8.000	-109.761	20.087	766.455	845.823	0.419	4.163	20.087	***5.992***
2022-08-16 2:45	4625105	7.990	-109.165	20.030	761.943	841.859	0.417	4.861	20.030	***5.949***
2022-08-16 3:00	4626005	8.009	-110.233	19.962	754.090	834.381	0.414	6.244	19.962	***6.081***
2022-08-16 3:15	4626905	8.009	-110.211	19.934	756.344	837.361	0.415	5.334	19.934	***6.227***
2022-08-16 3:30	4627805	7.980	-108.569	19.921	762.433	844.347	0.419	5.303	19.921	***6.267***
2022-08-16 3:45	4628705	7.979	-108.480	19.899	768.871	851.871	0.423	3.650	19.899	***6.082***
2022-08-16 4:00	4629605	7.996	-109.475	19.919	761.971	843.864	0.418	4.210	19.919	***5.929***
2022-08-16 4:15	4630505	7.954	-107.105	19.865	772.342	856.324	0.425	5.455	19.865	***5.895***
2022-08-16 4:30	4631405	7.923	-105.281	19.792	772.462	857.784	0.426	4.700	19.792	***5.514***
2022-08-16 4:45	4632305	7.941	-106.287	19.717	768.332	854.567	0.424	5.108	19.717	***5.442***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-16 5:00	4633205	7.956	-107.138	19.684	762.259	848.398	0.421	5.878	19.684	***5.676***
2022-08-16 5:15	4634105	7.984	-108.712	19.636	761.791	848.754	0.421	4.601	19.636	***5.671***
2022-08-16 5:30	4635005	7.981	-108.519	19.604	761.575	849.083	0.421	3.438	19.604	***5.683***
2022-08-16 5:45	4635905	7.965	-107.558	19.543	759.326	847.680	0.420	4.626	19.543	***5.650***
2022-08-16 6:00	4636805	7.987	-108.814	19.456	751.104	840.056	0.416	6.031	19.456	***5.604***
2022-08-16 6:15	4637705	8.016	-110.397	19.382	745.736	835.381	0.414	9.068	19.382	***5.837***
2022-08-16 6:30	4638605	7.981	-108.407	19.371	751.625	842.175	0.417	4.415	19.371	***5.962***
2022-08-16 6:45	4639505	7.943	-106.258	19.286	746.910	838.418	0.415	3.535	19.286	***5.695***
2022-08-16 7:00	4640405	7.962	-107.319	19.214	736.726	828.261	0.410	6.453	19.214	***5.442***
2022-08-16 7:15	4641305	7.956	-106.907	19.157	735.753	828.179	0.410	5.374	19.157	***5.314***
2022-08-16 7:30	4642205	7.959	-107.121	19.141	738.748	831.828	0.412	5.036	19.141	***5.389***
2022-08-16 7:45	4643105	7.992	-108.967	19.139	748.568	842.924	0.418	4.469	19.139	***5.560***
2022-08-16 8:00	4644005	8.022	-110.619	19.136	748.933	843.392	0.418	6.135	19.136	***5.822***
2022-08-16 8:15	4644905	8.014	-110.207	19.128	756.401	851.951	0.422	5.113	19.128	***5.919***
2022-08-16 8:30	4645805	8.002	-109.518	19.122	758.525	854.460	0.424	3.276	19.122	***5.852***
2022-08-16 8:45	4646705	8.004	-109.601	19.128	759.087	854.980	0.424	3.629	19.128	***5.812***
2022-08-16 9:00	4647605	8.017	-110.383	19.119	758.690	854.690	0.424	4.829	19.119	***5.729***
2022-08-16 9:15	4648505	8.009	-109.930	19.111	758.301	854.401	0.424	5.287	19.111	***5.868***
2022-08-16 9:30	4649405	8.004	-109.634	19.114	766.435	863.514	0.428	4.841	19.114	***5.888***
2022-08-16 9:45	4650305	8.044	-111.914	19.147	776.901	874.677	0.434	4.801	19.147	***6.148***
2022-08-16 10:00	4651205	8.072	-113.451	19.160	781.505	879.618	0.437	5.359	19.160	6.594
2022-08-16 10:15	4652105	8.071	-113.432	19.137	782.014	880.622	0.437	4.204	19.137	6.774
2022-08-16 10:30	4653005	8.053	-112.367	19.087	783.620	883.384	0.439	10.201	19.087	6.747
2022-08-16 10:45	4653905	8.069	-113.246	19.044	778.400	878.324	0.436	5.694	19.044	6.943
2022-08-16 11:00	4654805	8.077	-113.680	18.959	754.002	852.347	0.423	5.337	18.959	6.949
2022-08-16 11:15	4655705	8.095	-114.672	18.941	751.721	850.096	0.421	4.558	18.941	6.973
2022-08-16 11:30	4656605	8.093	-114.574	18.931	747.966	846.035	0.419	5.019	18.931	6.968
2022-08-16 11:45	4657505	8.110	-115.495	18.926	736.616	833.281	0.413	4.789	18.926	7.033
2022-08-16 12:00	4658405	8.132	-116.756	18.946	724.712	819.460	0.406	5.508	18.946	7.172
2022-08-16 12:15	4659305	8.120	-116.069	18.960	723.298	817.630	0.405	4.766	18.960	7.306
2022-08-16 12:30	4660205	8.137	-117.052	18.971	718.798	812.336	0.402	4.189	18.971	7.481
2022-08-16 12:45	4661105	8.143	-117.383	18.955	713.207	806.308	0.399	3.607	18.955	7.523
2022-08-16 13:00	4662005	8.172	-118.990	18.949	698.982	790.331	0.391	4.442	18.949	7.672
2022-08-16 13:15	4662905	8.171	-118.937	18.954	696.385	787.297	0.389	4.391	18.954	7.633
2022-08-16 13:30	4663805	8.165	-118.613	18.972	693.357	783.569	0.387	4.934	18.972	7.683
2022-08-16 13:45	4664705	8.170	-118.952	19.002	692.241	781.815	0.386	7.475	19.002	7.760
2022-08-16 14:00	4665605	8.197	-120.492	19.071	692.989	781.494	0.386	4.558	19.071	7.773
2022-08-16 14:15	4666505	8.197	-120.494	19.128	694.909	782.698	0.387	4.469	19.128	7.833
2022-08-16 14:30	4667405	8.189	-120.037	19.166	697.572	785.058	0.388	3.937	19.166	7.855
2022-08-16 14:45	4668305	8.186	-119.953	19.248	701.944	788.573	0.390	3.522	19.248	7.862
2022-08-16 15:00	4669205	8.207	-121.160	19.415	705.916	790.215	0.391	5.031	19.415	7.992
2022-08-16 15:15	4670105	8.214	-121.613	19.524	710.718	793.729	0.393	4.837	19.524	8.308
2022-08-16 15:30	4671005	8.228	-122.435	19.604	711.987	793.805	0.393	4.794	19.604	8.386
2022-08-16 15:45	4671905	8.236	-122.926	19.716	709.995	789.689	0.391	5.077	19.716	8.635

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-16 16:00	4672805	8.235	-122.929	19.776	708.402	786.927	0.389	4.866	19.776	8.866
2022-08-16 16:15	4673705	8.205	-121.276	19.859	709.493	786.747	0.389	4.048	19.859	8.940
2022-08-16 16:30	4674605	8.234	-122.995	20.090	708.047	781.327	0.386	4.015	20.090	9.115
2022-08-16 16:45	4675505	8.272	-125.210	20.219	713.070	784.736	0.388	4.022	20.219	9.272
2022-08-16 17:00	4676405	8.287	-126.026	20.261	720.506	792.209	0.392	4.834	20.261	9.479
2022-08-16 17:15	4677305	8.296	-126.569	20.318	720.084	790.801	0.391	3.833	20.318	9.743
2022-08-16 17:30	4678205	8.312	-127.516	20.374	721.172	791.061	0.391	4.269	20.374	9.876
2022-08-16 17:45	4679105	8.302	-126.977	20.423	720.942	790.011	0.391	3.865	20.423	9.898
2022-08-16 18:00	4680005	8.291	-126.390	20.504	717.402	784.790	0.388	4.259	20.504	9.821
2022-08-16 18:15	4680905	8.290	-126.364	20.533	716.158	782.955	0.387	3.506	20.533	9.777
2022-08-16 18:30	4681805	8.310	-127.466	20.570	724.747	791.746	0.392	3.602	20.570	9.786
2022-08-16 18:45	4682705	8.303	-127.094	20.585	725.808	792.646	0.392	3.344	20.585	9.906
2022-08-16 19:00	4683605	8.298	-126.810	20.594	723.127	789.572	0.391	3.822	20.594	10.061
2022-08-16 19:15	4684505	8.283	-125.980	20.608	722.772	788.962	0.390	4.509	20.608	10.088
2022-08-16 19:30	4685405	8.240	-123.537	20.629	721.260	786.959	0.389	3.152	20.629	9.803
2022-08-16 19:45	4686305	8.238	-123.487	20.683	721.847	786.711	0.389	3.093	20.683	9.653
2022-08-16 20:00	4687205	8.271	-125.339	20.768	719.314	782.578	0.387	5.118	20.768	9.690
2022-08-16 20:15	4688105	8.263	-124.934	20.806	718.801	781.398	0.386	3.429	20.806	9.948
2022-08-16 20:30	4689005	8.254	-124.431	20.836	717.278	779.252	0.385	3.306	20.836	9.868
2022-08-16 20:45	4689905	8.240	-123.618	20.853	717.168	778.868	0.385	3.107	20.853	9.778
2022-08-16 21:00	4690805	8.255	-124.488	20.858	708.890	769.785	0.380	3.394	20.858	9.623
2022-08-16 21:15	4691705	8.254	-124.464	20.858	709.656	770.627	0.381	2.871	20.858	9.594
2022-08-16 21:30	4692605	8.253	-124.357	20.853	709.078	770.077	0.381	3.168	20.853	9.483
2022-08-16 21:45	4693505	8.237	-123.472	20.839	709.417	770.661	0.381	3.169	20.839	9.331
2022-08-16 22:00	4694405	8.224	-122.755	20.830	702.601	763.401	0.377	3.652	20.830	9.098
2022-08-16 22:15	4695305	8.221	-122.557	20.820	702.828	763.803	0.377	2.771	20.820	8.998
2022-08-16 22:30	4696205	8.179	-120.156	20.777	702.582	764.218	0.378	2.918	20.777	8.996
2022-08-16 22:45	4697105	8.123	-116.971	20.708	698.456	760.822	0.376	3.595	20.708	8.531
2022-08-16 23:00	4698005	8.125	-117.044	20.663	698.213	761.272	0.376	3.780	20.663	8.334
2022-08-16 23:15	4698905	8.160	-119.026	20.619	696.602	760.212	0.376	3.568	20.619	8.318
2022-08-16 23:30	4699805	8.153	-118.616	20.580	695.934	760.109	0.375	3.926	20.580	8.419
2022-08-16 23:45	4700705	8.130	-117.269	20.528	693.508	758.284	0.375	4.084	20.528	8.377
2022-08-17 0:00	4701605	8.097	-115.385	20.492	687.573	752.357	0.372	4.403	20.492	7.966
2022-08-17 0:15	4702505	8.071	-113.919	20.430	687.678	753.441	0.372	4.197	20.430	7.542
2022-08-17 0:30	4703405	8.048	-112.569	20.368	684.210	750.614	0.371	4.413	20.368	7.295
2022-08-17 0:45	4704305	8.035	-111.823	20.271	682.115	749.841	0.370	4.212	20.271	7.009
2022-08-17 1:00	4705205	8.011	-110.393	20.093	656.511	724.401	0.357	4.876	20.093	***6.480***
2022-08-17 1:15	4706105	8.005	-110.018	19.963	654.540	724.206	0.357	3.715	19.963	***6.190***
2022-08-17 1:30	4707005	7.984	-108.781	19.917	655.144	725.581	0.358	3.369	19.917	***5.898***
2022-08-17 1:45	4707905	7.953	-107.012	19.854	657.938	729.651	0.360	3.441	19.854	***5.683***
2022-08-17 2:00	4708805	7.960	-107.384	19.743	624.223	693.892	0.342	4.199	19.743	***5.355***
2022-08-17 2:15	4709705	7.937	-106.084	19.688	638.777	710.904	0.350	3.943	19.688	***5.256***
2022-08-17 2:30	4710605	7.919	-105.004	19.580	635.876	709.300	0.349	3.263	19.580	***4.908***
2022-08-17 2:45	4711505	7.910	-104.470	19.487	624.327	697.811	0.344	3.406	19.487	***4.606***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-17 3:00	4712405	7.922	-105.121	19.369	590.634	661.820	0.325	4.338	19.369	***4.546***
2022-08-17 3:15	4713305	7.905	-104.108	19.302	591.497	663.736	0.326	3.709	19.302	***4.394***
2022-08-17 3:30	4714205	7.897	-103.617	19.224	590.320	663.524	0.326	3.690	19.224	***4.320***
2022-08-17 3:45	4715105	7.888	-103.123	19.134	586.457	660.460	0.324	3.338	19.134	***4.334***
2022-08-17 4:00	4716005	7.902	-103.834	19.034	563.491	635.958	0.312	6.439	19.034	***4.379***
2022-08-17 4:15	4716905	7.896	-103.502	18.963	569.006	643.175	0.316	4.644	18.963	***4.618***
2022-08-17 4:30	4717805	7.892	-103.221	18.893	570.533	645.863	0.317	5.184	18.893	***4.686***
2022-08-17 4:45	4718705	7.889	-103.049	18.808	567.909	644.090	0.316	6.834	18.808	***4.686***
2022-08-17 5:00	4719605	7.894	-103.254	18.698	542.223	616.426	0.302	4.607	18.698	***4.541***
2022-08-17 5:15	4720505	7.848	-100.648	18.644	547.926	623.632	0.306	3.799	18.644	***4.139***
2022-08-17 5:30	4721405	7.819	-99.001	18.556	545.261	621.796	0.305	3.549	18.556	***3.868***
2022-08-17 5:45	4722305	7.802	-98.026	18.457	539.857	616.965	0.302	3.677	18.457	***3.465***
2022-08-17 6:00	4723205	7.809	-98.410	18.365	514.860	589.580	0.288	5.008	18.365	***3.555***
2022-08-17 6:15	4724105	7.767	-95.980	18.293	512.140	587.388	0.287	3.805	18.293	***3.351***
2022-08-17 6:30	4725005	7.742	-94.593	18.219	512.643	588.924	0.288	4.516	18.219	***3.024***
2022-08-17 6:45	4725905	7.731	-93.958	18.147	504.608	580.603	0.284	4.507	18.147	***2.932***
2022-08-17 7:00	4726805	7.745	-94.724	18.081	494.796	570.140	0.279	5.184	18.081	***2.899***
2022-08-17 7:15	4727705	7.744	-94.609	18.020	496.809	573.227	0.280	5.164	18.020	***2.760***
2022-08-17 7:30	4728605	7.726	-93.591	17.949	493.221	569.986	0.279	4.043	17.949	***2.452***
2022-08-17 7:45	4729505	7.786	-96.927	17.860	475.214	550.260	0.269	3.997	17.860	***2.801***
2022-08-17 8:00	4730405	7.787	-96.951	17.844	488.047	565.309	0.276	5.587	17.844	***3.015***
2022-08-17 8:15	4731305	7.771	-96.104	17.831	488.646	566.175	0.277	4.071	17.831	***3.181***
2022-08-17 8:30	4732205	7.754	-95.103	17.797	488.952	566.949	0.277	3.251	17.797	***2.896***
2022-08-17 8:45	4733105	7.730	-93.749	17.772	489.982	568.457	0.278	3.431	17.772	***2.686***
2022-08-17 9:00	4734005	7.727	-93.575	17.773	494.273	573.431	0.280	3.895	17.773	***2.537***
2022-08-17 9:15	4734905	7.730	-93.768	17.786	506.520	587.464	0.287	4.066	17.786	***2.449***
2022-08-17 9:30	4735805	7.733	-93.906	17.772	509.243	590.808	0.289	4.358	17.772	***2.237***
2022-08-17 9:45	4736705	7.728	-93.625	17.755	508.789	590.508	0.289	3.203	17.755	***2.047***
2022-08-17 10:00	4737605	7.747	-94.705	17.737	503.065	584.087	0.286	4.353	17.737	***2.325***
2022-08-17 10:15	4738505	7.729	-93.708	17.753	507.312	588.810	0.288	3.842	17.753	***2.519***
2022-08-17 10:30	4739405	7.741	-94.388	17.781	516.208	598.768	0.293	3.318	17.781	***2.666***
2022-08-17 10:45	4740305	7.762	-95.582	17.812	517.650	600.029	0.294	3.620	17.812	***2.394***
2022-08-17 11:00	4741205	7.802	-97.826	17.871	518.750	600.524	0.294	6.071	17.871	***2.557***
2022-08-17 11:15	4742105	7.790	-97.182	17.953	521.404	602.505	0.295	3.704	17.953	***3.478***
2022-08-17 11:30	4743005	7.810	-98.364	18.088	545.326	628.266	0.308	4.419	18.088	***3.775***
2022-08-17 11:45	4743905	7.858	-101.085	18.198	559.867	643.460	0.316	4.666	18.198	***4.027***
2022-08-17 12:00	4744805	7.913	-104.215	18.290	562.999	645.756	0.317	6.068	18.290	***4.756***
2022-08-17 12:15	4745705	7.925	-104.926	18.350	575.810	659.590	0.324	5.716	18.350	***5.209***
2022-08-17 12:30	4746605	7.948	-106.232	18.424	579.237	662.436	0.325	4.315	18.424	***5.086***
2022-08-17 12:45	4747505	7.915	-104.425	18.529	575.729	656.921	0.323	4.396	18.529	***5.159***
2022-08-17 13:00	4748405	7.943	-106.003	18.685	586.422	666.852	0.328	6.432	18.685	***5.486***
2022-08-17 13:15	4749305	7.966	-107.360	18.779	589.669	669.180	0.329	5.304	18.779	***6.204***
2022-08-17 13:30	4750205	7.958	-106.940	18.887	595.447	674.159	0.331	4.967	18.887	***6.298***
2022-08-17 13:45	4751105	7.975	-107.925	18.999	606.659	685.191	0.337	5.308	18.999	6.555

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-17 14:00	4752005	8.013	-110.149	19.106	610.803	688.280	0.339	6.456	19.106	6.796
2022-08-17 14:15	4752905	8.027	-110.974	19.201	615.279	691.916	0.340	4.867	19.201	7.102
2022-08-17 14:30	4753805	8.047	-112.131	19.326	624.467	700.362	0.345	6.520	19.326	7.208
2022-08-17 14:45	4754705	8.106	-115.492	19.449	630.372	705.139	0.347	5.909	19.449	7.714
2022-08-17 15:00	4755605	8.127	-116.785	19.661	637.761	710.184	0.350	5.729	19.661	7.733
2022-08-17 15:15	4756505	8.158	-118.561	19.808	641.962	712.638	0.351	8.779	19.808	8.790
2022-08-17 15:30	4757405	8.141	-117.705	20.026	646.618	714.496	0.352	6.365	20.026	8.905
2022-08-17 15:45	4758305	8.130	-117.128	20.210	650.133	715.595	0.353	6.137	20.210	9.064
2022-08-17 16:00	4759205	8.186	-120.370	20.324	653.821	717.940	0.354	7.313	20.324	8.990
2022-08-17 16:15	4760105	8.204	-121.419	20.401	655.876	719.036	0.354	5.392	20.401	9.345
2022-08-17 16:30	4761005	8.207	-121.562	20.381	653.643	716.892	0.353	4.220	20.381	9.171
2022-08-17 16:45	4761905	8.204	-121.458	20.539	656.384	717.522	0.354	5.366	20.539	9.672
2022-08-17 17:00	4762805	8.234	-123.234	20.707	658.983	717.836	0.354	5.719	20.707	9.601
2022-08-17 17:15	4763705	8.215	-122.244	20.857	661.757	718.622	0.354	5.216	20.857	9.564
2022-08-17 17:30	4764605	8.221	-122.635	21.030	663.652	718.102	0.354	5.428	21.030	9.926
2022-08-17 17:45	4765505	8.217	-122.452	21.147	665.384	718.239	0.354	5.854	21.147	10.201
2022-08-17 18:00	4766405	8.255	-124.655	21.268	667.363	718.591	0.354	5.117	21.268	10.422
2022-08-17 18:15	4767305	8.280	-126.131	21.346	667.329	717.396	0.354	4.844	21.346	10.971
2022-08-17 18:30	4768205	8.295	-127.037	21.502	668.406	716.267	0.353	4.657	21.502	11.212
2022-08-17 18:45	4769105	8.226	-123.198	21.670	671.658	717.277	0.354	3.545	21.670	9.979
2022-08-17 19:00	4770005	8.204	-122.073	21.954	676.495	718.288	0.354	4.805	21.954	9.324
2022-08-17 19:15	4770905	8.214	-122.669	21.983	677.542	718.977	0.355	11.277	21.983	10.035
2022-08-17 19:30	4771805	8.228	-123.446	21.941	684.524	727.007	0.359	3.883	21.941	10.188
2022-08-17 19:45	4772705	8.278	-126.243	21.905	691.453	734.894	0.363	3.562	21.905	10.163
2022-08-17 20:00	4773605	8.245	-124.412	22.004	686.638	728.322	0.359	4.529	22.004	9.804
2022-08-17 20:15	4774505	8.229	-123.477	21.966	690.822	733.317	0.362	3.863	21.966	10.108
2022-08-17 20:30	4775405	8.236	-123.875	21.996	693.120	735.313	0.363	3.410	21.996	9.797
2022-08-17 20:45	4776305	8.228	-123.434	22.030	695.075	736.878	0.364	3.172	22.030	9.754
2022-08-17 21:00	4777205	8.209	-122.416	22.102	689.862	730.286	0.360	3.085	22.102	9.606
2022-08-17 21:15	4778105	8.181	-120.802	22.029	693.386	735.097	0.363	3.384	22.029	9.889
2022-08-17 21:30	4779005	8.190	-121.245	21.928	691.572	734.672	0.363	3.587	21.928	9.994
2022-08-17 21:45	4779905	8.170	-120.075	21.853	688.243	732.255	0.361	3.921	21.853	10.056
2022-08-17 22:00	4780805	8.124	-117.450	21.837	679.858	723.578	0.357	7.538	21.837	9.729
2022-08-17 22:15	4781705	8.091	-115.557	21.751	680.237	725.237	0.358	3.878	21.751	9.218
2022-08-17 22:30	4782605	8.058	-113.652	21.651	676.933	723.191	0.357	4.260	21.651	9.165
2022-08-17 22:45	4783505	7.989	-109.677	21.577	674.221	721.392	0.356	4.367	21.577	8.521
2022-08-17 23:00	4784405	7.951	-107.489	21.521	662.328	709.472	0.350	5.423	21.521	7.733
2022-08-17 23:15	4785305	7.906	-104.949	21.445	672.293	721.264	0.356	5.115	21.445	7.187
2022-08-17 23:30	4786205	7.870	-102.844	21.360	669.328	719.334	0.355	5.005	21.360	6.830
2022-08-17 23:45	4787105	7.854	-101.914	21.292	668.300	719.242	0.355	4.981	21.292	6.764
2022-08-18 0:00	4788005	7.856	-102.046	21.239	656.012	706.779	0.348	6.835	21.239	***6.492***
2022-08-18 0:15	4788905	7.901	-104.561	21.141	657.641	709.966	0.350	4.875	21.141	***6.388***
2022-08-18 0:30	4789805	7.885	-103.633	21.089	659.777	713.040	0.351	5.622	21.089	6.565
2022-08-18 0:45	4790705	7.862	-102.303	21.003	657.266	711.591	0.351	4.695	21.003	6.573

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-18 1:00	4791605	7.840	-100.994	20.944	647.345	701.711	0.346	6.305	20.944	***6.138***
2022-08-18 1:15	4792505	7.817	-99.704	20.851	643.708	699.116	0.344	5.462	20.851	***5.351***
2022-08-18 1:30	4793405	7.787	-97.911	20.688	637.928	695.181	0.342	5.282	20.688	***4.309***
2022-08-18 1:45	4794305	7.766	-96.714	20.569	631.646	690.047	0.340	4.681	20.569	***3.964***
2022-08-18 2:00	4795205	7.783	-97.613	20.466	600.114	657.017	0.323	5.703	20.466	***4.186***
2022-08-18 2:15	4796105	7.764	-96.560	20.419	618.785	678.125	0.334	4.920	20.419	***3.722***
2022-08-18 2:30	4797005	7.734	-94.774	20.205	612.170	673.895	0.331	4.479	20.205	***3.305***
2022-08-18 2:45	4797905	7.723	-94.109	20.089	587.792	648.630	0.319	5.793	20.089	***3.150***
2022-08-18 3:00	4798805	7.750	-95.627	20.032	564.504	623.682	0.306	6.925	20.032	***3.483***
2022-08-18 3:15	4799705	7.711	-93.389	19.918	572.523	634.076	0.311	4.498	19.918	***3.178***
2022-08-18 3:30	4800605	7.700	-92.704	19.734	552.951	614.784	0.301	6.048	19.734	***3.031***
2022-08-18 3:45	4801505	7.710	-93.246	19.681	547.912	609.866	0.299	4.272	19.681	***2.789***
2022-08-18 4:00	4802405	7.723	-93.944	19.624	533.942	595.046	0.291	6.096	19.624	***3.045***
2022-08-18 4:15	4803305	7.705	-92.933	19.555	544.518	607.715	0.298	4.749	19.555	***2.890***
2022-08-18 4:30	4804205	7.697	-92.423	19.454	544.862	609.415	0.299	3.999	19.454	***2.443***
2022-08-18 4:45	4805105	7.683	-91.608	19.347	536.599	601.551	0.295	4.490	19.347	***2.082***
2022-08-18 5:00	4806005	7.686	-91.758	19.223	501.178	563.334	0.275	6.008	19.223	***2.394***
2022-08-18 5:15	4806905	7.687	-91.763	19.181	521.462	586.664	0.287	4.225	19.181	***2.271***
2022-08-18 5:30	4807805	7.691	-92.022	19.122	522.469	588.549	0.288	4.175	19.122	***2.348***
2022-08-18 5:45	4808705	7.689	-91.872	19.020	512.641	578.746	0.283	5.780	19.020	***2.455***
2022-08-18 6:00	4809605	7.693	-92.037	18.910	493.814	558.809	0.273	6.831	18.910	***2.370***
2022-08-18 6:15	4810505	7.673	-90.907	18.876	504.223	571.017	0.279	5.077	18.876	***2.192***
2022-08-18 6:30	4811405	7.678	-91.152	18.815	511.891	580.466	0.284	4.006	18.815	***2.195***
2022-08-18 6:45	4812305	7.685	-91.522	18.726	508.915	578.206	0.283	4.766	18.726	***2.332***
2022-08-18 7:00	4813205	7.683	-91.395	18.604	488.550	556.539	0.272	4.831	18.604	***2.280***
2022-08-18 7:15	4814105	7.685	-91.455	18.519	486.622	555.363	0.271	4.183	18.519	***2.071***
2022-08-18 7:30	4815005	7.671	-90.687	18.447	485.499	554.953	0.271	3.979	18.447	***1.943***
2022-08-18 7:45	4815905	7.659	-89.993	18.406	488.624	559.036	0.273	3.966	18.406	***1.813***
2022-08-18 8:00	4816805	7.690	-91.670	18.335	474.095	543.256	0.265	5.004	18.335	***1.735***
2022-08-18 8:15	4817705	7.686	-91.448	18.294	480.752	551.374	0.269	5.079	18.294	***2.159***
2022-08-18 8:30	4818605	7.709	-92.747	18.276	479.774	550.474	0.269	4.189	18.276	***2.221***
2022-08-18 8:45	4819505	7.712	-92.905	18.227	478.752	549.886	0.268	6.205	18.227	***2.401***
2022-08-18 9:00	4820405	7.698	-92.101	18.192	471.207	541.634	0.264	5.988	18.192	***2.320***
2022-08-18 9:15	4821305	7.696	-91.958	18.181	472.373	543.108	0.265	4.962	18.181	***2.126***
2022-08-18 9:30	4822205	7.685	-91.341	18.166	472.858	543.849	0.265	5.140	18.166	***1.886***
2022-08-18 9:45	4823105	7.671	-90.551	18.175	472.659	543.514	0.265	4.834	18.175	***1.794***
2022-08-18 10:00	4824005	7.676	-90.835	18.192	470.525	540.853	0.264	5.081	18.192	***1.720***
2022-08-18 10:15	4824905	7.666	-90.303	18.212	472.553	542.948	0.265	4.498	18.212	***1.431***
2022-08-18 10:30	4825805	7.654	-89.617	18.216	477.434	548.504	0.268	4.132	18.216	***1.095***
2022-08-18 10:45	4826705	7.648	-89.278	18.231	472.347	542.480	0.265	3.772	18.231	***1.238***
2022-08-18 11:00	4827605	7.658	-89.881	18.315	463.982	531.896	0.259	4.325	18.315	***2.243***
2022-08-18 11:15	4828505	7.713	-93.009	18.391	462.456	529.266	0.258	4.106	18.391	***3.107***
2022-08-18 11:30	4829405	7.742	-94.693	18.502	463.144	528.776	0.258	3.992	18.502	***3.162***
2022-08-18 11:45	4830305	7.738	-94.481	18.630	466.680	531.320	0.259	3.452	18.630	***3.344***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-18 12:00	4831205	7.777	-96.731	18.790	500.094	567.394	0.277	6.227	18.790	***3.422***
2022-08-18 12:15	4832105	7.792	-97.597	18.884	510.738	578.292	0.283	4.040	18.884	***3.734***
2022-08-18 12:30	4833005	7.873	-102.232	19.044	552.890	623.859	0.306	4.793	19.044	***3.978***
2022-08-18 12:45	4833905	7.849	-100.923	19.188	551.213	620.049	0.304	4.190	19.188	***4.798***
2022-08-18 13:00	4834805	7.863	-101.767	19.392	555.726	622.397	0.305	4.913	19.392	***5.006***
2022-08-18 13:15	4835705	7.889	-103.285	19.457	568.869	636.226	0.312	6.065	19.457	***6.258***
2022-08-18 13:30	4836605	7.910	-104.475	19.553	569.213	635.304	0.312	5.923	19.553	6.519
2022-08-18 13:45	4837505	7.967	-107.696	19.616	574.504	640.353	0.314	5.088	19.616	6.544
2022-08-18 14:00	4838405	7.979	-108.449	19.705	578.093	643.139	0.316	7.881	19.705	6.652
2022-08-18 14:15	4839305	7.966	-107.741	19.802	578.529	642.294	0.315	6.219	19.802	6.993
2022-08-18 14:30	4840205	7.959	-107.422	20.055	582.436	643.186	0.316	5.382	20.055	7.135
2022-08-18 14:45	4841105	7.985	-108.938	20.110	587.999	648.573	0.319	5.556	20.110	7.791
2022-08-18 15:00	4842005	8.034	-111.747	20.212	592.281	651.892	0.320	7.340	20.212	7.614
2022-08-18 15:15	4842905	8.020	-111.032	20.401	593.506	650.654	0.320	5.249	20.401	8.141
2022-08-18 15:30	4843805	7.998	-109.844	20.685	595.632	649.127	0.319	4.886	20.685	7.945
2022-08-18 15:45	4844705	8.006	-110.397	20.878	599.640	650.878	0.320	4.991	20.878	7.973
2022-08-18 16:00	4845605	8.121	-116.925	20.850	605.556	657.686	0.323	7.405	20.850	8.111
2022-08-18 16:15	4846505	8.108	-116.167	20.894	606.746	658.386	0.324	5.789	20.894	8.952
2022-08-18 16:30	4847405	8.095	-115.488	21.041	609.774	659.656	0.324	6.647	21.041	9.606
2022-08-18 16:45	4848305	8.152	-118.771	21.087	611.114	660.470	0.325	5.583	21.087	9.652
2022-08-18 17:00	4849205	8.144	-118.573	21.819	624.564	664.967	0.327	7.162	21.819	10.386
2022-08-18 17:15	4850105	8.237	-123.603	21.199	616.819	665.105	0.327	6.209	21.199	10.912
2022-08-18 17:30	4851005	8.177	-120.304	21.474	620.629	665.441	0.327	5.753	21.474	10.788
2022-08-18 17:45	4851905	8.165	-119.736	21.652	623.157	665.729	0.327	5.240	21.652	11.011
2022-08-18 18:00	4852805	8.178	-120.726	22.300	636.194	670.785	0.330	5.571	22.300	10.594
2022-08-18 18:15	4853705	8.194	-121.593	22.243	633.315	668.520	0.329	4.962	22.243	10.961
2022-08-18 18:30	4854605	8.322	-128.746	21.938	626.702	665.633	0.327	5.512	21.938	11.262
2022-08-18 18:45	4855505	8.330	-129.232	21.937	626.704	665.644	0.327	4.375	21.937	11.754
2022-08-18 19:00	4856405	8.285	-126.803	22.261	632.557	667.472	0.328	4.744	22.261	11.133
2022-08-18 19:15	4857305	8.242	-124.364	22.260	632.564	667.492	0.328	4.257	22.260	11.064
2022-08-18 19:30	4858205	8.292	-127.184	22.287	634.060	668.708	0.329	4.014	22.287	10.461
2022-08-18 19:45	4859105	8.310	-128.250	22.319	637.802	672.229	0.331	5.122	22.319	10.550
2022-08-18 20:00	4860005	8.270	-126.030	22.441	641.398	674.359	0.332	6.185	22.441	10.858
2022-08-18 20:15	4860905	8.279	-126.493	22.344	643.358	677.732	0.334	4.477	22.344	11.356
2022-08-18 20:30	4861805	8.264	-125.654	22.430	647.202	680.612	0.335	4.366	22.430	10.476
2022-08-18 20:45	4862705	8.258	-125.349	22.461	648.899	681.975	0.336	7.333	22.461	10.131
2022-08-18 21:00	4863605	8.246	-124.702	22.581	648.331	679.735	0.335	3.924	22.581	10.145
2022-08-18 21:15	4864505	8.226	-123.510	22.460	649.333	682.445	0.336	3.967	22.460	10.800
2022-08-18 21:30	4865405	8.253	-125.072	22.435	653.770	687.451	0.338	4.435	22.435	11.085
2022-08-18 21:45	4866305	8.210	-122.566	22.397	658.494	692.946	0.341	4.228	22.397	11.452
2022-08-18 22:00	4867205	8.183	-121.071	22.457	657.743	691.323	0.340	4.985	22.457	11.376
2022-08-18 22:15	4868105	8.164	-119.953	22.390	657.779	692.295	0.341	4.512	22.390	11.106
2022-08-18 22:30	4869005	8.135	-118.303	22.361	656.392	691.231	0.340	4.943	22.361	10.716
2022-08-18 22:45	4869905	8.100	-116.274	22.213	650.561	687.141	0.338	5.530	22.213	9.964

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-18 23:00	4870805	8.041	-112.882	22.203	630.796	666.395	0.328	6.285	22.203	8.791
2022-08-18 23:15	4871705	7.928	-106.425	22.107	642.957	680.566	0.335	7.046	22.107	8.419
2022-08-18 23:30	4872605	7.883	-103.817	21.925	633.154	672.667	0.331	8.479	21.925	7.596
2022-08-18 23:45	4873505	7.817	-99.990	21.778	624.884	665.861	0.327	6.602	21.778	6.530
2022-08-19 0:00	4874405	7.787	-98.255	21.715	607.659	648.332	0.319	8.444	21.715	***5.465***
2022-08-19 0:15	4875305	7.767	-97.082	21.641	608.052	649.739	0.319	7.509	21.641	***5.347***
2022-08-19 0:30	4876205	7.788	-98.252	21.578	605.525	647.870	0.318	7.408	21.578	***5.333***
2022-08-19 0:45	4877105	7.806	-99.273	21.528	605.855	648.879	0.319	7.150	21.528	***5.361***
2022-08-19 1:00	4878005	7.775	-97.468	21.392	582.133	625.218	0.307	7.430	21.392	***5.086***
2022-08-19 1:15	4878905	7.751	-96.078	21.265	577.226	621.563	0.305	5.965	21.265	***4.393***
2022-08-19 1:30	4879805	7.706	-93.482	21.117	576.716	622.914	0.306	5.450	21.117	***3.340***
2022-08-19 1:45	4880705	7.676	-91.729	20.981	567.384	614.565	0.301	5.231	20.981	***2.859***
2022-08-19 2:00	4881605	7.692	-92.626	20.893	546.436	592.951	0.290	6.909	20.893	***2.944***
2022-08-19 2:15	4882505	7.700	-93.031	20.809	554.854	603.131	0.296	11.251	20.809	***2.951***
2022-08-19 2:30	4883405	7.691	-92.487	20.702	559.923	609.997	0.299	5.797	20.702	***3.081***
2022-08-19 2:45	4884305	7.703	-93.162	20.653	565.061	616.225	0.302	8.494	20.653	***3.025***
2022-08-19 3:00	4885205	7.730	-94.674	20.563	552.046	603.157	0.296	6.950	20.563	***3.427***
2022-08-19 3:15	4886105	7.742	-95.284	20.401	547.399	600.114	0.294	5.409	20.401	***3.205***
2022-08-19 3:30	4887005	7.716	-93.758	20.305	546.153	599.950	0.294	4.996	20.305	***2.189***
2022-08-19 3:45	4887905	7.702	-92.940	20.218	543.965	598.641	0.293	7.654	20.218	***2.009***
2022-08-19 4:00	4888805	7.680	-91.705	20.090	513.815	566.982	0.277	6.448	20.090	***2.038***
2022-08-19 4:15	4889705	7.659	-90.470	20.005	515.294	569.645	0.279	6.750	20.005	***1.885***
2022-08-19 4:30	4890605	7.656	-90.237	19.893	506.435	561.169	0.274	6.276	19.893	***1.689***
2022-08-19 4:45	4891505	7.656	-90.225	19.823	512.523	568.765	0.278	6.325	19.823	***1.845***
2022-08-19 5:00	4892405	7.657	-90.251	19.717	495.372	550.963	0.269	7.139	19.717	***1.742***
2022-08-19 5:15	4893305	7.662	-90.532	19.653	508.819	566.689	0.277	6.741	19.653	***1.754***
2022-08-19 5:30	4894205	7.649	-89.779	19.554	508.073	567.051	0.277	7.793	19.554	***1.620***
2022-08-19 5:45	4895105	7.658	-90.232	19.504	509.767	569.554	0.278	6.150	19.504	***1.713***
2022-08-19 6:00	4896005	7.669	-90.880	19.436	496.951	556.048	0.272	7.285	19.436	***1.836***
2022-08-19 6:15	4896905	7.662	-90.442	19.348	498.905	559.279	0.273	6.566	19.348	***1.777***
2022-08-19 6:30	4897805	7.643	-89.355	19.300	512.744	575.388	0.281	6.714	19.300	***1.579***
2022-08-19 6:45	4898705	7.668	-90.714	19.230	511.849	575.243	0.281	5.478	19.230	***1.649***
2022-08-19 7:00	4899605	7.671	-90.859	19.154	496.269	558.651	0.273	10.634	19.154	***1.827***
2022-08-19 7:15	4900505	7.689	-91.908	19.108	498.252	561.432	0.274	5.898	19.108	***1.951***
2022-08-19 7:30	4901405	7.675	-91.078	19.045	493.862	557.241	0.272	5.994	19.045	***1.736***
2022-08-19 7:45	4902305	7.658	-90.089	18.984	487.946	551.291	0.269	5.575	18.984	***1.743***
2022-08-19 8:00	4903205	7.676	-91.124	18.954	481.758	544.657	0.266	5.100	18.954	***1.657***
2022-08-19 8:15	4904105	7.676	-91.112	18.914	482.155	545.569	0.266	4.661	18.914	***1.636***
2022-08-19 8:30	4905005	7.669	-90.704	18.884	482.491	546.310	0.267	4.381	18.884	***1.487***
2022-08-19 8:45	4905905	7.664	-90.404	18.849	481.680	545.808	0.266	5.090	18.849	***1.496***
2022-08-19 9:00	4906805	7.678	-91.164	18.831	477.434	541.206	0.264	4.606	18.831	***1.360***
2022-08-19 9:15	4907705	7.659	-90.120	18.846	479.321	543.170	0.265	4.753	18.846	***1.429***
2022-08-19 9:30	4908605	7.660	-90.172	18.875	485.273	549.563	0.268	3.971	18.875	***1.274***
2022-08-19 9:45	4909505	7.656	-89.958	18.901	489.414	553.939	0.271	3.973	18.901	***1.636***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-19 10:00	4910405	7.689	-91.815	18.936	493.484	558.125	0.273	4.791	18.936	***1.636***
2022-08-19 10:15	4911305	7.702	-92.590	18.955	495.182	559.816	0.274	4.397	18.955	***2.515***
2022-08-19 10:30	4912205	7.698	-92.328	18.984	496.211	560.625	0.274	3.455	18.984	***2.431***
2022-08-19 10:45	4913105	7.692	-92.020	19.040	494.070	557.532	0.272	3.772	19.040	***1.678***
2022-08-19 11:00	4914005	7.699	-92.432	19.146	488.732	550.252	0.269	4.029	19.146	***1.474***
2022-08-19 11:15	4914905	7.697	-92.366	19.204	485.668	546.130	0.267	3.379	19.204	***3.044***
2022-08-19 11:30	4915805	7.694	-92.251	19.311	512.752	575.263	0.281	3.658	19.311	***3.240***
2022-08-19 11:45	4916705	7.813	-98.989	19.414	532.489	596.082	0.292	3.820	19.414	***3.345***
2022-08-19 12:00	4917605	7.842	-100.648	19.509	529.739	591.807	0.290	6.784	19.509	***3.750***
2022-08-19 12:15	4918505	7.847	-100.920	19.588	539.789	602.025	0.295	5.063	19.588	***4.823***
2022-08-19 12:30	4919405	7.890	-103.412	19.686	555.286	618.010	0.303	5.504	19.686	***5.306***
2022-08-19 12:45	4920305	7.888	-103.321	19.781	558.654	620.506	0.304	6.941	19.781	***5.533***
2022-08-19 13:00	4921205	7.909	-104.578	19.919	564.301	624.948	0.307	6.690	19.919	***5.673***
2022-08-19 13:15	4922105	7.923	-105.407	20.006	566.448	626.171	0.307	6.858	20.006	***6.069***
2022-08-19 13:30	4923005	7.906	-104.485	20.122	569.720	628.248	0.308	6.220	20.122	***6.133***
2022-08-19 13:45	4923905	7.889	-103.514	20.237	574.382	631.868	0.310	6.277	20.237	***6.194***
2022-08-19 14:00	4924805	7.943	-106.711	20.517	578.573	632.749	0.311	5.736	20.517	***6.399***
2022-08-19 14:15	4925705	7.985	-109.444	21.589	558.584	597.513	0.293	5.661	21.589	6.914
2022-08-19 14:30	4926605	7.960	-108.099	21.788	573.040	610.494	0.299	4.767	21.788	6.675
2022-08-19 14:45	4927505	7.942	-107.179	22.005	597.423	633.668	0.311	4.111	22.005	6.847
2022-08-19 15:00	4928405	8.013	-111.122	21.777	619.550	660.193	0.325	5.193	21.777	8.342
2022-08-19 15:15	4929305	8.043	-112.686	21.429	600.340	644.284	0.316	8.016	21.429	9.086
2022-08-19 15:30	4930205	8.071	-114.346	21.502	602.203	645.322	0.317	5.432	21.502	9.224
2022-08-19 15:45	4931105	8.010	-110.912	21.688	609.470	650.626	0.320	4.598	21.688	8.887
2022-08-19 16:00	4932005	8.036	-112.386	21.693	606.068	646.926	0.318	5.711	21.693	9.057
2022-08-19 16:15	4932905	8.039	-112.581	21.721	605.217	645.652	0.317	5.187	21.721	9.015
2022-08-19 16:30	4933805	7.977	-109.162	21.955	612.011	649.808	0.319	4.386	21.955	9.128
2022-08-19 16:45	4934705	7.976	-109.146	22.136	615.382	650.998	0.320	5.528	22.136	8.595
2022-08-19 17:00	4935605	8.013	-111.303	22.290	615.681	649.292	0.319	4.881	22.290	8.801
2022-08-19 17:15	4936505	8.091	-115.755	22.261	612.427	646.230	0.317	4.424	22.261	9.050
2022-08-19 17:30	4937405	8.150	-119.116	22.232	609.615	643.637	0.316	4.193	22.232	9.173
2022-08-19 17:45	4938305	8.132	-118.113	22.319	611.724	644.738	0.317	4.241	22.319	8.805
2022-08-19 18:00	4939205	8.075	-114.930	22.520	616.497	647.154	0.318	4.518	22.520	8.653
2022-08-19 18:15	4940105	8.110	-116.935	22.462	613.144	644.380	0.317	4.267	22.462	9.549
2022-08-19 18:30	4941005	8.128	-117.943	22.468	612.016	643.113	0.316	3.946	22.468	9.562
2022-08-19 18:45	4941905	8.133	-118.282	22.570	613.246	643.091	0.316	3.824	22.570	8.969
2022-08-19 19:00	4942805	8.135	-118.451	22.755	618.220	645.911	0.317	4.209	22.755	9.141
2022-08-19 19:15	4943705	8.142	-118.830	22.713	618.724	646.989	0.318	4.022	22.713	9.996
2022-08-19 19:30	4944605	8.221	-123.341	22.690	618.108	646.636	0.318	4.190	22.690	10.037
2022-08-19 19:45	4945505	8.234	-124.106	22.709	619.211	647.540	0.318	3.965	22.709	9.992
2022-08-19 20:00	4946405	8.204	-122.445	22.869	622.978	649.410	0.319	4.520	22.869	9.961
2022-08-19 20:15	4947305	8.227	-123.725	22.777	622.088	649.671	0.319	3.967	22.777	10.529
2022-08-19 20:30	4948205	8.261	-125.682	22.804	624.558	651.899	0.320	3.913	22.804	10.342
2022-08-19 20:45	4949105	8.255	-125.339	22.833	626.156	653.196	0.321	4.259	22.833	10.111

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-19 21:00	4950005	8.212	-122.969	23.026	628.679	653.312	0.321	3.355	23.026	9.460
2022-08-19 21:15	4950905	8.216	-123.148	22.912	630.944	657.151	0.323	4.012	22.912	10.053
2022-08-19 21:30	4951805	8.240	-124.540	22.964	632.703	658.303	0.324	3.975	22.964	9.817
2022-08-19 21:45	4952705	8.236	-124.295	22.927	635.587	661.792	0.325	4.003	22.927	10.241
2022-08-19 22:00	4953605	8.177	-120.971	23.034	636.410	661.237	0.325	5.637	23.034	10.319
2022-08-19 22:15	4954505	8.122	-117.805	22.949	640.132	666.227	0.328	4.776	22.949	10.860
2022-08-19 22:30	4955405	8.085	-115.728	23.024	642.761	667.971	0.329	32.276	23.024	9.372
2022-08-19 22:45	4956305	8.064	-114.548	23.079	641.878	666.333	0.328	3.628	23.079	7.479
2022-08-19 23:00	4957205	7.980	-109.737	23.116	619.932	643.075	0.316	4.316	23.116	***6.273***
2022-08-19 23:15	4958105	7.922	-106.442	23.094	626.839	650.526	0.320	4.331	23.094	6.577
2022-08-19 23:30	4959005	7.940	-107.439	23.004	632.723	657.805	0.323	4.937	23.004	7.249
2022-08-19 23:45	4959905	7.811	-99.993	22.809	625.346	652.661	0.321	4.089	22.809	***4.967***
2022-08-20 0:00	4960805	7.728	-95.193	22.586	558.834	585.842	0.287	5.801	22.586	***3.193***
2022-08-20 0:15	4961705	7.680	-92.399	22.480	571.607	600.513	0.294	5.608	22.480	***2.913***
2022-08-20 0:30	4962605	7.699	-93.520	22.472	588.859	618.730	0.304	6.365	22.472	***2.730***
2022-08-20 0:45	4963505	7.695	-93.243	22.396	592.987	624.018	0.306	5.038	22.396	***3.111***
2022-08-20 1:00	4964405	7.648	-90.535	22.266	564.477	595.576	0.292	6.618	22.266	***2.405***
2022-08-20 1:15	4965305	7.631	-89.557	22.138	561.565	594.042	0.291	4.913	22.138	***2.034***
2022-08-20 1:30	4966205	7.615	-88.561	22.020	566.287	600.468	0.294	4.479	22.020	***1.753***
2022-08-20 1:45	4967105	7.607	-88.067	21.879	558.584	593.994	0.291	4.759	21.879	***1.656***
2022-08-20 2:00	4968005	7.626	-89.133	21.765	528.318	563.108	0.275	5.528	21.765	***1.977***
2022-08-20 2:15	4968905	7.632	-89.462	21.673	529.657	565.603	0.277	4.958	21.673	***2.087***
2022-08-20 2:30	4969805	7.638	-89.760	21.564	527.730	564.802	0.276	6.034	21.564	***2.058***
2022-08-20 2:45	4970705	7.630	-89.247	21.465	527.195	565.368	0.277	5.240	21.465	***2.147***
2022-08-20 3:00	4971605	7.657	-90.766	21.355	504.477	542.232	0.265	5.811	21.355	***2.026***
2022-08-20 3:15	4972505	7.648	-90.256	21.266	510.223	549.405	0.268	4.410	21.266	***1.977***
2022-08-20 3:30	4973405	7.637	-89.586	21.177	508.848	548.927	0.268	5.289	21.177	***1.811***
2022-08-20 3:45	4974305	7.623	-88.735	21.091	510.001	551.147	0.269	5.103	21.091	***1.682***
2022-08-20 4:00	4975205	7.645	-89.996	21.005	500.425	541.760	0.265	6.175	21.005	***1.714***
2022-08-20 4:15	4976105	7.650	-90.208	20.903	498.031	540.314	0.264	5.361	20.903	***1.833***
2022-08-20 4:30	4977005	7.644	-89.855	20.823	498.821	542.062	0.265	5.162	20.823	***1.523***
2022-08-20 4:45	4977905	7.627	-88.902	20.749	495.426	539.208	0.263	5.653	20.749	***1.390***
2022-08-20 5:00	4978805	7.638	-89.469	20.656	492.793	537.379	0.262	5.809	20.656	***1.467***
2022-08-20 5:15	4979705	7.654	-90.353	20.564	498.882	545.065	0.266	6.490	20.564	***1.681***
2022-08-20 5:30	4980605	7.694	-92.623	20.504	505.529	553.014	0.270	5.590	20.504	***1.876***
2022-08-20 5:45	4981505	7.694	-92.595	20.416	503.255	551.545	0.269	4.976	20.416	***1.857***
2022-08-20 6:00	4982405	7.717	-93.882	20.376	512.658	562.327	0.275	5.584	20.376	***2.066***
2022-08-20 6:15	4983305	7.695	-92.568	20.268	506.586	556.922	0.272	4.924	20.268	***2.201***
2022-08-20 6:30	4984205	7.716	-93.720	20.193	511.865	563.617	0.276	5.561	20.193	***2.006***
2022-08-20 6:45	4985105	7.699	-92.740	20.105	507.788	560.158	0.274	5.222	20.105	***2.145***
2022-08-20 7:00	4986005	7.678	-91.548	20.035	506.737	559.830	0.274	5.374	20.035	***2.054***
2022-08-20 7:15	4986905	7.704	-92.986	19.960	502.412	555.922	0.272	8.792	19.960	***2.039***
2022-08-20 7:30	4987805	7.676	-91.410	19.911	498.881	552.591	0.270	4.741	19.911	***1.884***
2022-08-20 7:45	4988705	7.683	-91.758	19.849	494.511	548.470	0.268	4.198	19.849	***1.687***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-20 8:00	4989605	7.671	-91.090	19.824	486.852	540.262	0.264	4.482	19.824	***1.577***
2022-08-20 8:15	4990505	7.712	-93.391	19.822	486.798	540.229	0.264	4.107	19.822	***1.557***
2022-08-20 8:30	4991405	7.668	-90.892	19.825	488.648	542.240	0.265	3.609	19.825	***1.513***
2022-08-20 8:45	4992305	7.659	-90.384	19.825	488.955	542.580	0.265	3.414	19.825	***1.521***
2022-08-20 9:00	4993205	7.671	-91.064	19.832	488.455	541.951	0.265	4.163	19.832	***1.600***
2022-08-20 9:15	4994105	7.706	-93.048	19.838	488.397	541.820	0.265	3.647	19.838	***2.303***
2022-08-20 9:30	4995005	7.700	-92.759	19.857	488.975	542.235	0.265	3.628	19.857	***2.144***
2022-08-20 9:45	4995905	7.713	-93.493	19.890	502.153	556.464	0.272	4.262	19.890	***1.867***
2022-08-20 10:00	4996805	7.759	-96.090	19.925	511.308	566.185	0.277	5.448	19.925	***2.447***
2022-08-20 10:15	4997705	7.746	-95.387	19.939	515.984	571.197	0.279	5.428	19.939	***3.207***
2022-08-20 10:30	4998605	7.783	-97.456	19.948	519.253	574.706	0.281	5.471	19.948	***3.243***
2022-08-20 10:45	4999505	7.770	-96.731	19.956	519.214	574.572	0.281	4.929	19.956	***3.379***
2022-08-20 11:00	5000405	7.826	-99.874	19.944	521.276	577.001	0.282	5.933	19.944	***3.508***
2022-08-20 11:15	5001305	7.792	-97.964	19.963	523.262	578.966	0.283	7.082	19.963	***4.013***
2022-08-20 11:30	5002205	7.817	-99.401	19.986	529.446	585.526	0.287	5.983	19.986	***3.776***
2022-08-20 11:45	5003105	7.817	-99.368	20.004	532.485	588.657	0.288	5.361	20.004	***3.885***
2022-08-20 12:00	5004005	7.816	-99.354	20.026	532.438	588.330	0.288	5.462	20.026	***4.143***
2022-08-20 12:15	5004905	7.823	-99.738	20.040	532.523	588.247	0.288	4.529	20.040	***4.525***
2022-08-20 12:30	5005805	7.807	-98.834	20.081	535.332	590.842	0.289	4.391	20.081	***4.666***
2022-08-20 12:45	5006705	7.844	-100.944	20.133	537.943	593.078	0.290	5.275	20.133	***5.160***
2022-08-20 13:00	5007605	7.830	-100.198	20.192	551.235	606.972	0.297	12.683	20.192	***4.887***
2022-08-20 13:15	5008505	7.877	-102.847	20.239	556.514	612.187	0.300	6.836	20.239	***5.632***
2022-08-20 13:30	5009405	7.900	-104.175	20.260	555.446	610.739	0.299	6.991	20.260	***5.869***
2022-08-20 13:45	5010305	7.926	-105.662	20.275	556.711	611.943	0.300	6.624	20.275	***5.945***
2022-08-20 14:00	5011205	7.956	-107.331	20.307	559.753	614.863	0.301	17.159	20.307	6.611
2022-08-20 14:15	5012105	7.969	-108.089	20.343	561.584	616.419	0.302	6.002	20.343	6.741
2022-08-20 14:30	5013005	7.962	-107.744	20.380	562.625	617.083	0.303	5.239	20.380	6.830
2022-08-20 14:45	5013905	7.944	-106.707	20.375	558.801	612.948	0.301	5.214	20.375	6.684
2022-08-20 15:00	5014805	7.937	-106.285	20.377	558.002	612.041	0.300	10.027	20.377	6.589
2022-08-20 15:15	5015705	7.940	-106.466	20.372	556.840	610.838	0.299	5.279	20.372	6.596
2022-08-20 15:30	5016605	7.947	-106.845	20.378	556.713	610.620	0.299	5.217	20.378	***6.384***
2022-08-20 15:45	5017505	7.939	-106.404	20.398	557.156	610.855	0.299	4.431	20.398	***6.142***
2022-08-20 16:00	5018405	7.926	-105.705	20.407	556.924	610.477	0.299	7.010	20.407	***6.190***
2022-08-20 16:15	5019305	7.940	-106.483	20.409	556.664	610.174	0.299	5.213	20.409	***6.300***
2022-08-20 16:30	5020205	7.904	-104.458	20.449	557.911	611.023	0.300	5.435	20.449	***5.809***
2022-08-20 16:45	5021105	7.901	-104.342	20.535	558.562	610.634	0.299	5.506	20.535	6.613
2022-08-20 17:00	5022005	7.896	-104.063	20.562	557.643	609.285	0.299	5.853	20.562	6.629
2022-08-20 17:15	5022905	7.934	-106.206	20.524	554.311	606.130	0.297	5.972	20.524	6.584
2022-08-20 17:30	5023805	7.904	-104.461	20.502	551.380	603.208	0.296	5.903	20.502	***6.340***
2022-08-20 17:45	5024705	7.967	-108.030	20.493	555.192	607.485	0.298	5.008	20.493	***6.499***
2022-08-20 18:00	5025605	7.950	-107.107	20.506	555.613	607.784	0.298	6.396	20.506	6.660
2022-08-20 18:15	5026505	7.954	-107.334	20.507	555.573	607.721	0.298	4.516	20.507	6.687
2022-08-20 18:30	5027405	7.921	-105.445	20.526	555.889	607.831	0.298	4.720	20.526	***5.834***
2022-08-20 18:45	5028305	7.889	-103.621	20.528	553.622	605.320	0.297	4.503	20.528	***5.657***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-20 19:00	5029205	7.884	-103.362	20.506	545.324	596.522	0.292	8.938	20.506	***5.794***
2022-08-20 19:15	5030105	7.896	-104.029	20.495	547.398	598.938	0.293	6.182	20.495	***6.219***
2022-08-20 19:30	5031005	7.942	-106.626	20.493	553.420	605.553	0.297	5.428	20.493	6.647
2022-08-20 19:45	5031905	7.940	-106.521	20.469	551.650	603.913	0.296	5.313	20.469	6.975
2022-08-20 20:00	5032805	7.953	-107.231	20.480	550.544	602.566	0.295	28.044	20.480	6.803
2022-08-20 20:15	5033705	7.953	-107.274	20.478	549.811	601.782	0.295	6.113	20.478	6.877
2022-08-20 20:30	5034605	7.952	-107.174	20.474	550.042	602.094	0.295	6.906	20.474	6.864
2022-08-20 20:45	5035505	7.929	-105.865	20.463	550.126	602.319	0.295	6.070	20.463	6.785
2022-08-20 21:00	5036405	7.907	-104.654	20.463	551.559	603.893	0.296	9.510	20.463	6.635
2022-08-20 21:15	5037305	7.895	-103.943	20.451	552.873	605.479	0.297	6.332	20.451	***6.403***
2022-08-20 21:30	5038205	7.856	-101.726	20.438	554.516	607.440	0.298	5.473	20.438	***6.087***
2022-08-20 21:45	5039105	7.831	-100.334	20.423	554.098	607.178	0.298	6.126	20.423	***5.836***
2022-08-20 22:00	5040005	7.838	-100.729	20.392	548.541	601.473	0.295	7.052	20.392	***5.541***
2022-08-20 22:15	5040905	7.826	-100.007	20.319	545.348	598.896	0.293	5.412	20.319	***4.588***
2022-08-20 22:30	5041805	7.811	-99.127	20.273	546.427	600.656	0.294	5.356	20.273	***3.850***
2022-08-20 22:45	5042705	7.780	-97.358	20.226	544.580	599.214	0.294	5.029	20.226	***3.961***
2022-08-20 23:00	5043605	7.772	-96.896	20.201	533.467	587.299	0.288	5.830	20.201	***4.049***
2022-08-20 23:15	5044505	7.773	-96.939	20.158	532.033	586.254	0.287	5.123	20.158	***3.920***
2022-08-20 23:30	5045405	7.763	-96.374	20.114	537.130	592.412	0.290	4.726	20.114	***3.352***
2022-08-20 23:45	5046305	7.733	-94.686	20.047	538.931	595.248	0.292	4.154	20.047	***2.773***
2022-08-21 0:00	5047205	7.722	-94.028	19.970	513.573	568.156	0.278	5.916	19.970	***2.459***
2022-08-21 0:15	5048105	7.734	-94.655	19.939	520.180	575.844	0.282	5.619	19.939	***2.595***
2022-08-21 0:30	5049005	7.714	-93.510	19.864	520.131	576.708	0.282	5.443	19.864	***2.721***
2022-08-21 0:45	5049905	7.694	-92.399	19.775	520.974	578.729	0.283	6.841	19.775	***2.268***
2022-08-21 1:00	5050805	7.680	-91.572	19.677	497.845	554.194	0.271	6.473	19.677	***2.011***
2022-08-21 1:15	5051705	7.680	-91.519	19.632	496.950	553.717	0.271	5.726	19.632	***1.667***
2022-08-21 1:30	5052605	7.692	-92.189	19.578	493.850	550.907	0.269	7.196	19.578	***1.764***
2022-08-21 1:45	5053505	7.689	-92.037	19.536	493.392	550.886	0.269	7.074	19.536	***2.072***
2022-08-21 2:00	5054405	7.694	-92.294	19.457	486.853	544.495	0.266	6.470	19.457	***1.823***
2022-08-21 2:15	5055305	7.681	-91.503	19.375	483.041	541.189	0.264	6.692	19.375	***1.669***
2022-08-21 2:30	5056205	7.650	-89.772	19.308	484.094	543.144	0.265	6.579	19.308	***1.404***
2022-08-21 2:45	5057105	7.627	-88.415	19.240	483.228	542.959	0.265	5.765	19.240	***1.030***
2022-08-21 3:00	5058005	7.631	-88.658	19.210	479.827	539.489	0.263	7.375	19.210	***0.964***
2022-08-21 3:15	5058905	7.658	-90.137	19.158	478.296	538.372	0.263	5.605	19.158	***1.148***
2022-08-21 3:30	5059805	7.642	-89.226	19.097	477.829	538.552	0.263	6.116	19.097	***0.838***
2022-08-21 3:45	5060705	7.688	-91.822	19.055	481.512	543.195	0.265	7.529	19.055	***1.757***
2022-08-21 4:00	5061605	7.699	-92.449	19.039	484.232	546.448	0.267	6.797	19.039	***1.802***
2022-08-21 4:15	5062505	7.651	-89.729	19.022	486.895	549.657	0.268	5.778	19.022	***1.952***
2022-08-21 4:30	5063405	7.668	-90.680	19.024	496.727	560.726	0.274	5.497	19.024	***1.555***
2022-08-21 4:45	5064305	7.766	-96.219	19.044	509.428	574.816	0.281	5.692	19.044	***2.159***
2022-08-21 5:00	5065205	7.731	-94.240	19.006	504.306	569.506	0.278	6.582	19.006	***2.886***
2022-08-21 5:15	5066105	7.755	-95.541	18.960	500.776	566.081	0.277	6.434	18.960	***2.813***
2022-08-21 5:30	5067005	7.720	-93.555	18.923	500.208	565.893	0.277	5.353	18.923	***2.489***
2022-08-21 5:45	5067905	7.698	-92.294	18.890	499.238	565.199	0.276	7.791	18.890	***2.374***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-21 6:00	5068805	7.697	-92.280	18.865	491.524	556.761	0.272	7.622	18.865	***2.055***
2022-08-21 6:15	5069705	7.686	-91.646	18.828	487.123	552.219	0.270	6.494	18.828	***1.627***
2022-08-21 6:30	5070605	7.731	-94.161	18.837	489.508	554.821	0.271	5.863	18.837	***1.514***
2022-08-21 6:45	5071505	7.645	-89.326	18.833	494.989	561.079	0.274	5.085	18.833	***1.426***
2022-08-21 7:00	5072405	7.665	-90.451	18.813	490.505	556.235	0.272	7.296	18.813	***1.256***
2022-08-21 7:15	5073305	7.702	-92.497	18.791	490.178	556.134	0.272	6.264	18.791	***1.938***
2022-08-21 7:30	5074205	7.684	-91.505	18.756	488.972	555.184	0.271	5.695	18.756	***1.647***
2022-08-21 7:45	5075105	7.643	-89.164	18.725	487.769	554.195	0.271	5.479	18.725	***1.355***
2022-08-21 8:00	5076005	7.637	-88.847	18.711	479.698	545.192	0.266	7.754	18.711	***0.855***
2022-08-21 8:15	5076905	7.620	-87.879	18.703	479.345	544.883	0.266	5.009	18.703	***1.058***
2022-08-21 8:30	5077805	7.609	-87.283	18.721	482.219	547.936	0.268	4.646	18.721	***0.788***
2022-08-21 8:45	5078705	7.625	-88.155	18.737	485.458	551.424	0.269	4.070	18.737	***0.384***
2022-08-21 9:00	5079605	7.649	-89.507	18.781	489.644	555.646	0.271	6.287	18.781	***0.884***
2022-08-21 9:15	5080505	7.685	-91.569	18.816	494.884	561.169	0.274	6.701	18.816	***2.465***
2022-08-21 9:30	5081405	7.724	-93.746	18.848	502.228	569.096	0.278	6.243	18.848	***2.804***
2022-08-21 9:45	5082305	7.750	-95.232	18.886	508.385	575.607	0.281	6.020	18.886	***2.974***
2022-08-21 10:00	5083205	7.772	-96.486	18.943	513.809	581.031	0.284	5.753	18.943	***3.158***
2022-08-21 10:15	5084105	7.773	-96.581	18.969	514.485	581.459	0.284	4.760	18.969	***3.670***
2022-08-21 10:30	5085005	7.773	-96.567	19.030	516.610	583.101	0.285	4.667	19.030	***4.113***
2022-08-21 10:45	5085905	7.758	-95.737	19.080	517.189	583.123	0.285	3.688	19.080	***4.147***
2022-08-21 11:00	5086805	7.795	-97.885	19.133	510.666	575.112	0.281	4.862	19.133	***4.078***
2022-08-21 11:15	5087705	7.783	-97.201	19.182	508.441	572.009	0.280	4.269	19.182	***4.185***
2022-08-21 11:30	5088605	7.812	-98.855	19.249	506.661	569.178	0.278	3.954	19.249	***4.165***
2022-08-21 11:45	5089505	7.818	-99.237	19.326	508.571	570.390	0.279	3.793	19.326	***4.482***
2022-08-21 12:00	5090405	7.845	-100.803	19.452	517.751	579.122	0.283	4.922	19.452	***4.644***
2022-08-21 12:15	5091305	7.835	-100.219	19.525	519.389	580.043	0.284	4.072	19.525	***4.568***
2022-08-21 12:30	5092205	7.874	-102.477	19.610	531.061	592.010	0.290	4.536	19.610	***5.209***
2022-08-21 12:45	5093105	7.851	-101.225	19.697	538.406	599.088	0.293	4.426	19.697	***5.537***
2022-08-21 13:00	5094005	7.833	-100.329	20.134	506.526	558.430	0.273	4.473	20.134	***4.227***
2022-08-21 13:15	5094905	7.908	-104.742	20.582	499.591	545.633	0.267	3.737	20.582	***5.609***
2022-08-21 13:30	5095805	7.894	-103.951	20.629	543.491	592.994	0.290	3.596	20.629	***5.543***
2022-08-21 13:45	5096705	7.868	-102.565	20.768	518.081	563.645	0.276	3.944	20.768	***5.228***
2022-08-21 14:00	5097605	7.859	-102.146	21.031	511.338	553.279	0.270	4.411	21.031	***5.384***
2022-08-21 14:15	5098505	7.882	-103.467	21.127	516.242	557.480	0.273	4.063	21.127	***5.891***
2022-08-21 14:30	5099405	7.897	-104.482	21.543	511.843	548.029	0.268	3.681	21.543	***5.860***
2022-08-21 14:45	5100305	7.933	-106.876	22.536	527.169	553.200	0.270	3.920	22.536	6.953
2022-08-21 15:00	5101205	7.867	-103.002	22.238	527.771	557.164	0.272	5.388	22.238	6.660
2022-08-21 15:15	5102105	7.942	-107.293	22.251	542.710	572.783	0.280	5.236	22.251	6.880
2022-08-21 15:30	5103005	7.858	-102.587	22.508	527.147	553.493	0.271	3.849	22.508	***6.275***
2022-08-21 15:45	5103905	7.917	-106.058	22.805	524.363	547.304	0.267	3.453	22.805	***6.098***
2022-08-21 16:00	5104805	7.922	-106.432	23.093	518.131	537.719	0.263	4.255	23.093	***5.693***
2022-08-21 16:15	5105705	7.900	-105.240	23.273	522.909	540.744	0.264	4.177	23.273	***6.397***
2022-08-21 16:30	5106605	7.920	-106.530	23.665	537.017	551.073	0.269	4.187	23.665	7.033
2022-08-21 16:45	5107505	7.958	-108.685	23.643	534.075	548.287	0.268	3.772	23.643	7.260

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-21 17:00	5108405	7.939	-107.520	23.408	522.172	538.548	0.263	4.425	23.408	***6.085***
2022-08-21 17:15	5109305	7.963	-108.857	23.373	521.769	538.505	0.263	4.045	23.373	***5.976***
2022-08-21 17:30	5110205	7.893	-104.933	23.495	522.753	538.223	0.263	3.740	23.495	***5.712***
2022-08-21 17:45	5111105	7.904	-105.598	23.615	524.576	538.826	0.263	3.707	23.615	***6.157***
2022-08-21 18:00	5112005	7.926	-106.969	23.950	532.641	543.542	0.266	4.483	23.950	***5.970***
2022-08-21 18:15	5112905	7.974	-109.701	23.886	530.576	542.111	0.265	3.900	23.886	6.651
2022-08-21 18:30	5113805	7.973	-109.642	23.924	530.611	541.745	0.265	3.758	23.924	6.937
2022-08-21 18:45	5114705	8.009	-111.673	23.767	524.323	536.966	0.262	3.349	23.767	***5.859***
2022-08-21 19:00	5115605	7.948	-108.130	23.600	520.509	534.815	0.261	3.994	23.600	***5.523***
2022-08-21 19:15	5116505	7.936	-107.327	23.363	512.885	529.436	0.258	3.746	23.363	***5.261***
2022-08-21 19:30	5117405	7.912	-105.915	23.270	511.266	528.738	0.258	3.212	23.270	***4.938***
2022-08-21 19:45	5118305	7.828	-101.092	23.176	513.493	532.026	0.260	3.774	23.176	***4.703***
2022-08-21 20:00	5119205	7.866	-103.238	23.134	512.883	531.842	0.260	4.035	23.134	***4.487***
2022-08-21 20:15	5120105	7.839	-101.688	23.014	514.588	534.881	0.261	3.368	23.014	***4.282***
2022-08-21 20:30	5121005	7.805	-99.678	22.923	521.518	543.062	0.265	3.857	22.923	***3.809***
2022-08-21 20:45	5121905	7.813	-100.141	22.839	527.791	550.512	0.269	3.519	22.839	***3.798***
2022-08-21 21:00	5122805	7.766	-97.435	22.762	530.247	553.930	0.271	4.155	22.762	***3.843***
2022-08-21 21:15	5123705	7.877	-103.695	22.646	531.245	556.252	0.272	3.268	22.646	***4.476***
2022-08-21 21:30	5124605	7.779	-98.090	22.482	530.015	556.788	0.272	4.657	22.482	***3.783***
2022-08-21 21:45	5125505	7.728	-95.096	22.362	537.231	565.740	0.277	5.354	22.362	***3.122***
2022-08-21 22:00	5126405	7.720	-94.604	22.210	532.865	562.861	0.275	8.348	22.210	***2.829***
2022-08-21 22:15	5127305	7.679	-92.223	22.042	526.005	557.505	0.273	5.694	22.042	***2.765***
2022-08-21 22:30	5128205	7.681	-92.332	21.934	528.967	561.869	0.275	5.962	21.934	***2.670***
2022-08-21 22:45	5129105	7.698	-93.246	21.797	522.678	556.742	0.272	5.872	21.797	***2.598***
2022-08-21 23:00	5130005	7.686	-92.480	21.646	508.971	543.807	0.266	7.335	21.646	***2.423***
2022-08-21 23:15	5130905	7.702	-93.374	21.602	534.676	571.786	0.280	6.296	21.602	***2.309***
2022-08-21 23:30	5131805	7.748	-95.987	21.519	538.634	576.996	0.282	5.431	21.519	***2.777***
2022-08-21 23:45	5132705	7.682	-92.177	21.353	527.097	566.560	0.277	6.237	21.353	***2.510***
2022-08-22 0:00	5133605	7.673	-91.646	21.218	507.215	546.712	0.267	7.225	21.218	***1.985***
2022-08-22 0:15	5134505	7.700	-93.164	21.123	505.520	545.949	0.267	6.539	21.123	***1.649***
2022-08-22 0:30	5135405	7.674	-91.627	21.022	504.848	546.357	0.267	5.301	21.022	***1.474***
2022-08-22 0:45	5136305	7.703	-93.241	20.938	504.106	546.503	0.267	6.489	20.938	***1.149***
2022-08-22 1:00	5137205	7.719	-94.135	20.833	499.502	542.692	0.265	5.953	20.833	***1.295***
2022-08-22 1:15	5138105	7.716	-93.935	20.768	499.105	542.992	0.265	5.707	20.768	***1.985***
2022-08-22 1:30	5139005	7.712	-93.706	20.700	499.997	544.736	0.266	7.283	20.700	***1.917***
2022-08-22 1:45	5139905	7.737	-95.060	20.622	501.424	547.175	0.267	6.677	20.622	***2.104***
2022-08-22 2:00	5140805	7.752	-95.887	20.554	500.005	546.409	0.267	6.817	20.554	***2.220***
2022-08-22 2:15	5141705	7.732	-94.771	20.500	506.666	554.305	0.271	4.534	20.500	***2.431***
2022-08-22 2:30	5142605	7.765	-96.607	20.409	499.848	547.895	0.268	7.263	20.409	***2.569***
2022-08-22 2:45	5143505	7.748	-95.603	20.342	500.921	549.840	0.269	4.245	20.342	***2.326***
2022-08-22 3:00	5144405	7.733	-94.759	20.281	504.524	554.503	0.271	6.297	20.281	***2.446***
2022-08-22 3:15	5145305	7.724	-94.206	20.211	502.970	553.611	0.271	5.507	20.211	***2.576***
2022-08-22 3:30	5146205	7.792	-97.995	20.132	502.039	553.497	0.270	4.476	20.132	***2.866***
2022-08-22 3:45	5147105	7.772	-96.862	20.074	503.552	555.852	0.272	3.337	20.074	***2.705***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-22 4:00	5148005	7.796	-98.240	20.031	506.820	559.969	0.274	8.388	20.031	***2.360***
2022-08-22 4:15	5148905	7.810	-98.999	19.947	506.166	560.235	0.274	3.784	19.947	***2.952***
2022-08-22 4:30	5149805	7.827	-99.926	19.867	508.198	563.438	0.275	3.516	19.867	***2.851***
2022-08-22 4:45	5150705	7.824	-99.704	19.804	508.496	564.515	0.276	4.160	19.804	***2.955***
2022-08-22 5:00	5151605	7.810	-98.939	19.758	505.150	561.350	0.274	5.533	19.758	***3.046***
2022-08-22 5:15	5152505	7.833	-100.198	19.697	508.061	565.316	0.276	3.958	19.697	***3.360***
2022-08-22 5:30	5153405	7.838	-100.462	19.634	505.701	563.453	0.275	4.136	19.634	***3.449***
2022-08-22 5:45	5154305	7.796	-98.057	19.578	505.899	564.346	0.276	3.979	19.578	***3.620***
2022-08-22 6:00	5155205	7.826	-99.747	19.519	503.518	562.389	0.275	5.530	19.519	***3.307***
2022-08-22 6:15	5156105	7.858	-101.540	19.449	505.619	565.582	0.276	4.300	19.449	***3.638***
2022-08-22 6:30	5157005	7.844	-100.713	19.364	503.659	564.423	0.276	4.139	19.364	***3.342***
2022-08-22 6:45	5157905	7.849	-100.961	19.308	502.393	563.668	0.276	3.599	19.308	***3.096***
2022-08-22 7:00	5158805	7.810	-98.760	19.258	496.751	557.946	0.273	4.370	19.258	***3.085***
2022-08-22 7:15	5159705	7.787	-97.446	19.218	503.947	566.507	0.277	4.527	19.218	***3.338***
2022-08-22 7:30	5160605	7.828	-99.711	19.178	501.123	563.817	0.276	4.810	19.178	***3.545***
2022-08-22 7:45	5161505	7.823	-99.471	19.158	501.834	564.868	0.276	3.888	19.158	***3.599***
2022-08-22 8:00	5162405	7.893	-103.388	19.123	499.447	562.596	0.275	6.466	19.123	***3.565***
2022-08-22 8:15	5163305	7.865	-101.771	19.072	499.799	563.620	0.275	3.961	19.072	***3.978***
2022-08-22 8:30	5164205	7.834	-100.021	19.055	500.262	564.346	0.276	4.124	19.055	***3.887***
2022-08-22 8:45	5165105	7.866	-101.843	19.074	510.476	575.625	0.282	4.851	19.074	***3.571***
2022-08-22 9:00	5166005	7.852	-101.037	19.091	507.832	572.441	0.280	5.537	19.091	***4.160***
2022-08-22 9:15	5166905	7.890	-103.195	19.098	507.233	571.680	0.280	4.240	19.098	***4.310***
2022-08-22 9:30	5167805	7.871	-102.148	19.121	507.188	571.346	0.279	3.749	19.121	***3.874***
2022-08-22 9:45	5168705	7.860	-101.511	19.144	506.946	570.789	0.279	4.271	19.144	***3.605***
2022-08-22 10:00	5169605	7.846	-100.710	19.156	501.928	564.989	0.276	8.363	19.156	***4.148***
2022-08-22 10:15	5170505	7.864	-101.743	19.133	502.273	565.660	0.276	4.787	19.133	***4.047***
2022-08-22 10:30	5171405	7.842	-100.529	19.131	502.154	565.549	0.276	4.823	19.131	***3.990***
2022-08-22 10:45	5172305	7.833	-100.017	19.146	502.286	565.523	0.276	4.159	19.146	***3.776***
2022-08-22 11:00	5173205	7.830	-99.840	19.214	500.365	562.536	0.275	6.743	19.214	***3.509***
2022-08-22 11:15	5174105	7.810	-98.760	19.325	503.231	564.409	0.276	7.349	19.325	***3.951***
2022-08-22 11:30	5175005	7.834	-100.172	19.510	510.530	570.338	0.279	11.109	19.510	***4.957***
2022-08-22 11:45	5175905	7.856	-101.471	19.632	512.858	571.447	0.279	7.671	19.632	***4.692***
2022-08-22 12:00	5176805	7.876	-102.615	19.731	508.744	565.669	0.277	8.167	19.731	***4.530***
2022-08-22 12:15	5177705	7.886	-103.211	19.787	509.894	566.281	0.277	5.337	19.787	***4.869***
2022-08-22 12:30	5178605	7.874	-102.541	19.861	512.514	568.299	0.278	5.188	19.861	***4.955***
2022-08-22 12:45	5179506	7.828	-99.986	19.953	537.398	594.732	0.291	7.019	19.953	***5.129***
2022-08-22 13:00	5180406	7.852	-101.418	20.070	531.098	586.303	0.287	7.037	20.070	***4.835***
2022-08-22 13:15	5181306	7.884	-103.214	20.185	537.160	591.562	0.290	7.143	20.185	***5.735***
2022-08-22 13:30	5182206	7.860	-101.924	20.328	541.349	594.392	0.291	5.737	20.328	***5.789***
2022-08-22 13:45	5183106	7.854	-101.638	20.430	546.401	598.658	0.293	5.821	20.430	***5.934***
2022-08-22 14:00	5184006	7.902	-104.406	20.542	542.020	592.465	0.290	5.631	20.542	***5.766***
2022-08-22 14:15	5184906	7.897	-104.160	20.660	543.813	592.964	0.290	4.937	20.660	***5.632***
2022-08-22 14:30	5185806	7.832	-100.520	20.778	554.812	603.473	0.296	5.700	20.778	6.784
2022-08-22 14:45	5186706	7.930	-106.077	20.833	559.889	608.304	0.298	5.831	20.833	7.704

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-22 15:00	5187606	7.912	-105.114	21.005	562.950	609.452	0.299	8.064	21.005	7.666
2022-08-22 15:15	5188506	7.945	-107.026	21.140	565.480	610.487	0.299	7.632	21.140	8.588
2022-08-22 15:30	5189406	7.916	-105.581	21.599	547.092	585.105	0.286	4.727	21.599	***6.335***
2022-08-22 15:45	5190306	8.036	-112.481	21.880	589.794	627.167	0.308	6.617	21.880	***6.435***
2022-08-22 16:00	5191206	8.099	-115.826	21.250	561.337	604.648	0.296	11.680	21.250	9.129
2022-08-22 16:15	5192106	8.063	-113.807	21.335	562.185	604.499	0.296	7.058	21.335	8.787
2022-08-22 16:30	5193006	7.981	-109.210	21.545	568.719	608.900	0.299	6.515	21.545	8.624
2022-08-22 16:45	5193906	7.971	-108.781	21.824	578.432	615.791	0.302	6.211	21.824	8.614
2022-08-22 17:00	5194806	7.968	-108.759	22.234	593.068	626.152	0.307	12.351	22.234	9.158
2022-08-22 17:15	5195706	8.106	-116.498	21.956	579.955	615.755	0.302	9.015	21.956	9.365
2022-08-22 17:30	5196606	8.106	-116.479	21.872	574.376	610.870	0.300	9.087	21.872	9.468
2022-08-22 17:45	5197506	8.149	-118.883	21.793	568.824	605.938	0.297	8.176	21.793	9.859
2022-08-22 18:00	5198406	8.135	-118.120	21.939	574.991	610.690	0.299	7.287	21.939	10.116
2022-08-22 18:15	5199306	8.090	-115.638	22.062	578.251	612.624	0.300	5.875	22.062	10.409
2022-08-22 18:30	5200206	8.024	-111.997	22.395	589.095	619.942	0.304	5.560	22.395	9.671
2022-08-22 18:45	5201106	8.027	-112.200	22.547	596.101	625.397	0.307	4.925	22.547	9.331
2022-08-22 19:00	5202006	8.137	-118.461	22.475	590.215	620.117	0.304	13.029	22.475	9.502
2022-08-22 19:15	5202906	8.131	-118.082	22.379	585.609	616.465	0.302	5.612	22.379	10.101
2022-08-22 19:30	5203806	8.159	-119.677	22.366	583.973	614.905	0.302	5.410	22.366	10.170
2022-08-22 19:45	5204706	8.162	-119.827	22.390	584.294	614.952	0.302	4.686	22.390	9.981
2022-08-22 20:00	5205606	8.111	-116.987	22.530	590.488	619.724	0.304	9.396	22.530	9.461
2022-08-22 20:15	5206506	8.075	-114.942	22.472	591.820	621.843	0.305	4.901	22.472	9.819
2022-08-22 20:30	5207406	8.007	-111.139	22.692	592.371	619.692	0.304	4.461	22.692	8.862
2022-08-22 20:45	5208306	7.947	-107.772	22.906	592.995	617.696	0.303	4.965	22.906	7.712
2022-08-22 21:00	5209206	7.925	-106.518	22.872	586.462	611.304	0.300	6.857	22.872	7.359
2022-08-22 21:15	5210106	7.852	-102.272	22.663	581.706	608.882	0.299	5.250	22.663	6.781
2022-08-22 21:30	5211006	7.813	-100.033	22.576	585.554	613.978	0.301	5.194	22.576	***6.338***
2022-08-22 21:45	5211906	7.771	-97.585	22.392	586.538	617.284	0.303	5.785	22.392	***6.002***
2022-08-22 22:00	5212806	7.803	-99.406	22.359	592.793	624.288	0.306	11.906	22.359	***5.835***
2022-08-22 22:15	5213706	7.781	-98.104	22.262	588.261	620.718	0.305	5.427	22.262	***5.838***
2022-08-22 22:30	5214606	7.772	-97.594	22.185	583.223	616.364	0.302	4.933	22.185	***5.400***
2022-08-22 22:45	5215506	7.746	-96.071	22.108	581.438	615.429	0.302	5.873	22.108	***4.965***
2022-08-22 23:00	5216406	7.710	-93.958	21.929	553.724	588.232	0.288	6.416	21.929	***4.172***
2022-08-22 23:15	5217306	7.655	-90.809	21.801	540.548	575.729	0.282	5.319	21.801	***2.925***
2022-08-22 23:30	5218206	7.660	-91.026	21.684	536.742	573.031	0.280	5.408	21.684	***2.214***
2022-08-22 23:45	5219106	7.680	-92.139	21.574	528.861	565.890	0.277	7.178	21.574	***1.882***
2022-08-23 0:00	5220006	7.660	-90.973	21.463	522.114	559.940	0.274	7.415	21.463	***1.908***
2022-08-23 0:15	5220906	7.648	-90.241	21.362	527.930	567.348	0.278	5.696	21.362	***1.509***
2022-08-23 0:30	5221806	7.630	-89.202	21.268	527.490	567.975	0.278	5.961	21.268	***1.551***
2022-08-23 0:45	5222706	7.644	-89.996	21.162	522.128	563.426	0.276	5.611	21.162	***1.121***
2022-08-23 1:00	5223606	7.663	-91.021	21.055	520.658	563.091	0.275	6.252	21.055	***1.130***
2022-08-23 1:15	5224506	7.690	-92.509	20.970	516.471	559.546	0.274	4.986	20.970	***1.424***
2022-08-23 1:30	5225406	7.677	-91.770	20.868	514.170	558.222	0.273	6.122	20.868	***1.355***
2022-08-23 1:45	5226306	7.660	-90.759	20.771	511.414	556.358	0.272	5.406	20.771	***1.008***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-23 2:00	5227206	7.655	-90.463	20.692	514.647	560.787	0.274	7.399	20.692	***1.118***
2022-08-23 2:15	5228106	7.655	-90.446	20.613	514.224	561.251	0.274	6.117	20.613	***1.454***
2022-08-23 2:30	5229006	7.674	-91.498	20.547	518.046	566.198	0.277	5.381	20.547	***1.428***
2022-08-23 2:45	5229906	7.690	-92.373	20.464	516.971	566.004	0.277	5.065	20.464	***1.645***
2022-08-23 3:00	5230806	7.746	-95.534	20.387	520.034	570.277	0.279	5.879	20.387	***1.740***
2022-08-23 3:15	5231706	7.717	-93.856	20.315	518.098	569.009	0.278	5.026	20.315	***2.560***
2022-08-23 3:30	5232606	7.715	-93.729	20.236	518.445	570.337	0.279	3.833	20.236	***2.007***
2022-08-23 3:45	5233506	7.756	-96.018	20.175	518.795	571.456	0.280	4.162	20.175	***1.476***
2022-08-23 4:00	5234406	7.714	-93.610	20.132	519.551	572.815	0.280	6.002	20.132	***2.052***
2022-08-23 4:15	5235306	7.745	-95.360	20.069	520.432	574.549	0.281	4.080	20.069	***2.492***
2022-08-23 4:30	5236206	7.776	-97.096	19.993	520.317	575.341	0.281	3.978	19.993	***2.657***
2022-08-23 4:45	5237106	7.772	-96.807	19.933	519.867	575.571	0.282	3.998	19.933	***2.633***
2022-08-23 5:00	5238006	7.770	-96.724	19.888	516.322	572.189	0.280	5.752	19.888	***2.426***
2022-08-23 5:15	5238906	7.757	-95.925	19.841	520.364	577.238	0.282	4.028	19.841	***2.786***
2022-08-23 5:30	5239806	7.779	-97.160	19.787	519.881	577.372	0.282	3.817	19.787	***2.849***
2022-08-23 5:45	5240706	7.777	-97.039	19.741	519.108	577.072	0.282	3.619	19.741	***2.419***
2022-08-23 6:00	5241606	7.763	-96.209	19.683	517.478	575.973	0.282	7.305	19.683	***2.445***
2022-08-23 6:15	5242506	7.786	-97.497	19.616	518.666	578.117	0.283	5.023	19.616	***2.897***
2022-08-23 6:30	5243406	7.795	-97.995	19.551	518.012	578.185	0.283	3.959	19.551	***2.872***
2022-08-23 6:45	5244306	7.761	-96.090	19.503	518.239	579.029	0.283	4.245	19.503	***2.828***
2022-08-23 7:00	5245206	7.772	-96.664	19.474	521.594	583.139	0.285	5.565	19.474	***2.629***
2022-08-23 7:15	5246106	7.772	-96.653	19.458	521.835	583.609	0.286	3.920	19.458	***3.277***
2022-08-23 7:30	5247006	7.727	-94.132	19.438	523.406	585.617	0.287	3.935	19.438	***3.121***
2022-08-23 7:45	5247906	7.783	-97.277	19.422	522.663	584.984	0.286	3.425	19.422	***3.139***
2022-08-23 8:00	5248806	7.781	-97.194	19.439	522.425	584.507	0.286	8.013	19.439	***3.169***
2022-08-23 8:15	5249706	7.806	-98.567	19.418	521.496	583.728	0.286	4.010	19.418	***3.427***
2022-08-23 8:30	5250606	7.801	-98.319	19.416	521.605	583.873	0.286	4.577	19.416	***3.475***
2022-08-23 8:45	5251506	7.828	-99.804	19.407	522.282	584.753	0.286	3.984	19.407	***3.290***
2022-08-23 9:00	5252406	7.844	-100.691	19.383	519.864	582.339	0.285	5.930	19.383	***3.512***
2022-08-23 9:15	5253306	7.830	-99.928	19.348	520.021	582.952	0.285	4.784	19.348	***3.798***
2022-08-23 9:30	5254206	7.861	-101.633	19.325	519.976	583.185	0.285	3.363	19.325	***3.647***
2022-08-23 9:45	5255106	7.838	-100.341	19.311	519.144	582.437	0.285	3.799	19.311	***3.658***
2022-08-23 10:00	5256006	7.812	-98.855	19.319	513.967	576.526	0.282	6.275	19.319	***3.603***
2022-08-23 10:15	5256906	7.815	-99.046	19.327	514.561	577.098	0.282	4.565	19.327	***3.369***
2022-08-23 10:30	5257806	7.793	-97.809	19.347	514.213	576.453	0.282	3.603	19.347	***2.959***
2022-08-23 10:45	5258706	7.774	-96.769	19.365	512.861	574.719	0.281	3.283	19.365	***3.111***
2022-08-23 11:00	5259606	7.777	-96.920	19.413	509.376	570.227	0.279	4.006	19.413	***2.984***
2022-08-23 11:15	5260506	7.773	-96.741	19.471	509.729	569.914	0.279	3.887	19.471	***2.778***
2022-08-23 11:30	5261406	7.769	-96.543	19.585	513.813	573.090	0.280	5.167	19.585	***3.483***
2022-08-23 11:45	5262306	7.772	-96.793	19.760	519.939	577.769	0.283	4.327	19.760	***4.696***
2022-08-23 12:00	5263206	7.764	-96.374	19.894	526.606	583.512	0.286	19.620	19.894	***4.287***
2022-08-23 12:15	5264106	7.792	-97.947	19.973	527.798	583.861	0.286	5.031	19.973	***4.616***
2022-08-23 12:30	5265006	7.799	-98.424	20.105	527.474	581.873	0.285	6.577	20.105	***4.525***
2022-08-23 12:45	5265906	7.811	-99.154	20.235	522.391	574.691	0.281	4.271	20.235	***4.119***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-23 13:00	5266806	7.803	-98.741	20.417	519.375	569.202	0.278	4.394	20.417	***4.020***
2022-08-23 13:15	5267706	7.793	-98.195	20.522	520.237	568.898	0.278	4.026	20.522	***3.849***
2022-08-23 13:30	5268606	7.804	-98.863	20.679	525.260	572.511	0.280	3.549	20.679	***4.626***
2022-08-23 13:45	5269506	7.802	-98.815	20.845	525.445	570.745	0.279	3.792	20.845	***4.480***
2022-08-23 14:00	5270406	7.814	-99.649	21.337	523.211	562.576	0.275	6.948	21.337	***4.835***
2022-08-23 14:15	5271306	7.823	-100.241	21.547	522.981	559.906	0.274	4.018	21.547	***5.197***
2022-08-23 14:30	5272206	7.821	-100.203	21.717	529.713	565.150	0.276	4.305	21.717	***5.486***
2022-08-23 14:45	5273106	7.797	-98.932	21.936	530.649	563.630	0.276	3.927	21.936	***5.613***
2022-08-23 15:00	5274006	7.804	-99.392	22.146	536.825	567.775	0.278	4.498	22.146	***5.791***
2022-08-23 15:15	5274906	7.820	-100.307	22.191	539.605	570.196	0.279	3.773	22.191	***5.576***
2022-08-23 15:30	5275806	7.815	-100.012	22.251	551.946	582.535	0.285	3.814	22.251	***5.536***
2022-08-23 15:45	5276706	7.776	-97.752	22.107	587.269	621.619	0.305	4.517	22.107	***4.830***
2022-08-23 16:00	5277606	7.862	-102.537	21.698	573.427	612.021	0.300	10.355	21.698	7.224
2022-08-23 16:15	5278506	7.896	-104.432	21.611	572.132	611.731	0.300	5.642	21.611	7.804
2022-08-23 16:30	5279406	7.908	-105.076	21.587	571.039	610.861	0.300	5.857	21.587	7.939
2022-08-23 16:45	5280306	7.940	-106.883	21.549	569.578	609.771	0.299	5.066	21.549	7.987
2022-08-23 17:00	5281206	7.865	-102.687	21.704	569.460	607.716	0.298	6.126	21.704	7.948
2022-08-23 17:15	5282106	7.858	-102.327	21.789	570.354	607.622	0.298	5.515	21.789	7.883
2022-08-23 17:30	5283006	7.856	-102.227	21.861	574.027	610.636	0.299	4.863	21.861	7.857
2022-08-23 17:45	5283906	7.908	-105.174	21.842	576.165	613.145	0.301	4.865	21.842	8.273
2022-08-23 18:00	5284806	7.945	-107.307	21.899	575.261	611.474	0.300	6.723	21.899	8.174
2022-08-23 18:15	5285706	7.954	-107.818	21.932	574.709	610.482	0.299	6.459	21.932	9.989
2022-08-23 18:30	5286606	7.912	-105.569	22.348	563.081	593.119	0.291	5.205	22.348	7.759
2022-08-23 18:45	5287506	7.912	-105.684	22.553	564.882	592.572	0.290	4.967	22.553	7.294
2022-08-23 19:00	5288406	7.894	-104.682	22.624	564.097	590.916	0.289	5.065	22.624	7.170
2022-08-23 19:15	5289306	7.894	-104.673	22.554	560.184	587.632	0.288	4.236	22.554	6.921
2022-08-23 19:30	5290206	7.893	-104.547	22.489	556.562	584.598	0.286	3.456	22.489	6.574
2022-08-23 19:45	5291106	7.813	-99.964	22.332	544.147	573.359	0.281	4.417	22.332	***5.953***
2022-08-23 20:00	5292006	7.808	-99.635	22.292	546.378	576.176	0.282	4.460	22.292	***5.261***
2022-08-23 20:15	5292906	7.946	-106.764	20.173	996.629	1097.841	0.550	18.145	20.173	***6.165***
2022-08-23 20:30	5293806	7.882	-102.942	19.705	1068.765	1189.017	0.598	13.904	19.705	***5.710***
2022-08-23 20:45	5294706	7.919	-105.011	19.559	1191.314	1329.484	0.672	12.916	19.559	***5.723***
2022-08-23 21:00	5295606	8.018	-110.619	19.651	1288.342	1434.930	0.727	15.865	19.651	***6.035***
2022-08-23 21:15	5296506	8.096	-115.054	19.784	1332.128	1479.525	0.751	54.323	19.784	***6.410***
2022-08-23 21:30	5297406	8.134	-117.230	19.827	1345.931	1493.484	0.759	12.984	19.827	6.549
2022-08-23 21:45	5298306	8.149	-118.046	19.765	1343.964	1493.281	0.759	14.568	19.765	6.606
2022-08-23 22:00	5299206	8.170	-119.202	19.648	1340.482	1493.112	0.758	30.710	19.648	6.634
2022-08-23 22:15	5300106	8.151	-118.093	19.528	1332.979	1488.547	0.756	36.381	19.528	6.607
2022-08-23 22:30	5301006	8.147	-117.788	19.430	1326.914	1484.894	0.754	49.107	19.430	***6.497***
2022-08-23 22:45	5301906	8.143	-117.567	19.345	1320.859	1480.798	0.752	26.032	19.345	6.515
2022-08-23 23:00	5302806	8.157	-118.268	19.254	1315.819	1478.030	0.750	20.296	19.254	6.512
2022-08-23 23:15	5303706	8.135	-116.999	19.158	1311.402	1476.120	0.749	15.215	19.158	***6.450***
2022-08-23 23:30	5304606	8.132	-116.789	19.069	1307.547	1474.579	0.748	15.445	19.069	***6.437***
2022-08-23 23:45	5305506	8.127	-116.508	18.969	1302.619	1472.191	0.747	15.592	18.969	***6.386***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-24 0:00	5306406	8.146	-117.497	18.877	1298.984	1471.023	0.746	25.856	18.877	***6.380***
2022-08-24 0:15	5307306	8.123	-116.196	18.790	1293.636	1467.715	0.745	12.492	18.790	***6.337***
2022-08-24 0:30	5308206	8.121	-116.041	18.711	1288.281	1464.161	0.743	14.881	18.711	***6.305***
2022-08-24 0:45	5309106	8.119	-115.891	18.639	1283.784	1461.340	0.741	11.205	18.639	***6.302***
2022-08-24 1:00	5310006	8.135	-116.758	18.562	1278.306	1457.522	0.739	11.335	18.562	***6.284***
2022-08-24 1:15	5310906	8.116	-115.707	18.494	1275.677	1456.704	0.739	11.451	18.494	***6.257***
2022-08-24 1:30	5311806	8.118	-115.769	18.428	1271.811	1454.364	0.737	10.596	18.428	***6.283***
2022-08-24 1:45	5312706	8.118	-115.738	18.350	1270.587	1455.449	0.738	9.656	18.350	***6.224***
2022-08-24 2:00	5313606	8.140	-116.932	18.273	1266.827	1453.589	0.737	23.160	18.273	***6.288***
2022-08-24 2:15	5314506	8.121	-115.874	18.208	1261.964	1450.075	0.735	16.699	18.208	***6.303***
2022-08-24 2:30	5315406	8.124	-115.986	18.146	1260.480	1450.340	0.735	12.899	18.146	***6.296***
2022-08-24 2:45	5316306	8.126	-116.081	18.084	1256.905	1448.211	0.734	10.581	18.084	***6.319***
2022-08-24 3:00	5317206	8.147	-117.214	18.012	1255.115	1448.451	0.734	13.465	18.012	***6.338***
2022-08-24 3:15	5318106	8.131	-116.339	17.960	1251.587	1446.041	0.733	11.659	17.960	***6.331***
2022-08-24 3:30	5319006	8.134	-116.484	17.908	1249.470	1445.232	0.732	9.858	17.908	***6.318***
2022-08-24 3:45	5319906	8.137	-116.601	17.846	1246.903	1444.252	0.732	9.732	17.846	***6.328***
2022-08-24 4:00	5320806	8.159	-117.803	17.778	1244.868	1444.077	0.732	14.888	17.778	***6.349***
2022-08-24 4:15	5321706	8.143	-116.889	17.719	1243.542	1444.420	0.732	9.392	17.719	***6.315***
2022-08-24 4:30	5322606	8.147	-117.068	17.665	1240.048	1442.084	0.730	9.827	17.665	***6.319***
2022-08-24 4:45	5323506	8.148	-117.130	17.607	1238.632	1442.307	0.731	10.277	17.607	***6.333***
2022-08-24 5:00	5324406	8.167	-118.151	17.544	1237.223	1442.676	0.731	18.328	17.544	***6.345***
2022-08-24 5:15	5325306	8.154	-117.431	17.489	1233.410	1440.000	0.729	12.887	17.489	***6.317***
2022-08-24 5:30	5326206	8.157	-117.536	17.417	1230.758	1439.214	0.729	15.967	17.417	***6.366***
2022-08-24 5:45	5327106	8.160	-117.691	17.356	1229.189	1439.318	0.729	13.372	17.356	***6.362***
2022-08-24 6:00	5328006	8.184	-119.021	17.283	1226.460	1438.485	0.728	106.864	17.283	***6.368***
2022-08-24 6:15	5328906	8.165	-117.908	17.219	1225.666	1439.616	0.729	10.649	17.219	***6.354***
2022-08-24 6:30	5329806	8.166	-117.967	17.148	1221.974	1437.555	0.728	9.359	17.148	***6.327***
2022-08-24 6:45	5330706	8.169	-118.101	17.080	1221.577	1439.307	0.729	11.388	17.080	***6.369***
2022-08-24 7:00	5331606	8.192	-119.350	17.007	1216.981	1436.254	0.727	11.189	17.007	***6.411***
2022-08-24 7:15	5332506	8.174	-118.318	16.938	1215.197	1436.390	0.727	9.539	16.938	***6.405***
2022-08-24 7:30	5333406	8.177	-118.446	16.873	1212.757	1435.607	0.727	9.705	16.873	***6.462***
2022-08-24 7:45	5334306	8.180	-118.594	16.826	1212.437	1436.760	0.727	9.550	16.826	***6.477***
2022-08-24 8:00	5335206	8.208	-120.144	16.789	1212.994	1438.620	0.728	49.486	16.789	6.511
2022-08-24 8:15	5336106	8.189	-119.081	16.773	1211.311	1437.134	0.727	10.078	16.773	6.535
2022-08-24 8:30	5337006	8.193	-119.288	16.764	1209.533	1435.334	0.726	11.181	16.764	6.585
2022-08-24 8:45	5337906	8.197	-119.517	16.761	1209.418	1435.285	0.726	10.037	16.761	6.561
2022-08-24 9:00	5338806	8.221	-120.847	16.765	1209.354	1435.070	0.726	10.701	16.765	6.607
2022-08-24 9:15	5339706	8.207	-120.096	16.776	1212.056	1437.937	0.728	10.115	16.776	6.677
2022-08-24 9:30	5340606	8.213	-120.430	16.797	1210.526	1435.434	0.726	10.109	16.797	6.708
2022-08-24 9:45	5341506	8.218	-120.699	16.810	1212.160	1436.937	0.727	10.275	16.810	6.775
2022-08-24 10:00	5342406	8.245	-122.240	16.819	1215.233	1440.304	0.729	13.933	16.819	6.868
2022-08-24 10:15	5343306	8.226	-121.200	16.847	1210.741	1434.057	0.726	10.551	16.847	6.890
2022-08-24 10:30	5344206	8.233	-121.582	16.869	1214.322	1437.590	0.728	10.863	16.869	6.921
2022-08-24 10:45	5345106	8.238	-121.841	16.895	1212.558	1434.640	0.726	10.600	16.895	6.969

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-24 11:00	5346006	8.260	-123.115	16.936	1214.026	1435.064	0.726	12.877	16.936	6.974
2022-08-24 11:15	5346906	8.248	-122.466	16.988	1218.053	1438.124	0.728	11.979	16.988	7.076
2022-08-24 11:30	5347806	8.254	-122.838	17.076	1217.409	1434.516	0.726	11.998	17.076	7.222
2022-08-24 11:45	5348706	8.259	-123.141	17.153	1222.971	1438.591	0.728	11.727	17.153	7.303
2022-08-24 12:00	5349606	8.281	-124.438	17.240	1224.359	1437.403	0.728	14.004	17.240	7.331
2022-08-24 12:15	5350506	8.268	-123.742	17.306	1225.527	1436.652	0.727	13.927	17.306	7.399
2022-08-24 12:30	5351406	8.273	-124.025	17.372	1228.339	1437.820	0.728	11.706	17.372	7.350
2022-08-24 12:45	5352306	8.278	-124.366	17.475	1232.340	1439.203	0.729	11.652	17.475	7.341
2022-08-24 13:00	5353206	8.296	-125.418	17.643	1238.920	1441.482	0.730	10.519	17.643	7.492
2022-08-24 13:15	5354106	8.293	-125.344	17.776	1242.189	1441.019	0.730	10.787	17.776	7.576
2022-08-24 13:30	5355006	8.303	-125.952	17.949	1246.684	1440.724	0.730	10.330	17.949	7.576
2022-08-24 13:45	5355906	8.311	-126.514	18.171	1253.308	1441.302	0.730	11.454	18.171	7.792
2022-08-24 14:00	5356806	8.333	-127.869	18.453	1265.949	1446.881	0.733	12.701	18.453	7.854
2022-08-24 14:15	5357706	8.331	-127.845	18.702	1272.609	1446.614	0.733	66.011	18.702	8.020
2022-08-24 14:30	5358606	8.339	-128.410	18.926	1281.154	1449.285	0.735	61.203	18.926	8.115
2022-08-24 14:45	5359506	8.347	-128.963	19.130	1285.773	1448.130	0.734	65.752	19.130	8.206
2022-08-24 15:00	5360406	8.356	-129.569	19.363	1293.961	1450.097	0.735	16.460	19.363	8.237
2022-08-24 15:15	5361306	8.353	-129.459	19.547	1300.022	1451.172	0.736	43.044	19.547	8.256
2022-08-24 15:30	5362206	8.360	-129.962	19.737	1305.321	1451.201	0.736	33.178	19.737	8.294
2022-08-24 15:45	5363106	8.364	-130.284	19.945	1310.228	1450.247	0.736	58.614	19.945	8.303
2022-08-24 16:00	5364006	8.375	-131.004	20.147	1316.134	1450.580	0.736	13.880	20.147	8.320
2022-08-24 16:15	5364906	8.368	-130.651	20.289	1321.736	1452.418	0.737	91.945	20.289	8.373
2022-08-24 16:30	5365806	8.366	-130.599	20.431	1325.338	1452.069	0.737	111.935	20.431	8.237
2022-08-24 16:45	5366706	8.362	-130.394	20.516	1331.436	1456.146	0.739	89.906	20.516	8.220
2022-08-24 17:00	5367606	8.364	-130.529	20.589	1332.025	1454.587	0.738	76.798	20.589	8.194
2022-08-24 17:15	5368506	8.343	-129.354	20.598	1333.565	1455.980	0.739	27.800	20.598	8.160
2022-08-24 17:30	5369406	8.333	-128.779	20.587	1333.199	1455.922	0.739	41.774	20.587	8.096
2022-08-24 17:45	5370306	8.322	-128.136	20.537	1331.283	1455.332	0.739	100.246	20.537	8.043
2022-08-24 18:00	5371206	8.319	-127.921	20.462	1330.166	1456.407	0.739	16.808	20.462	7.998
2022-08-24 18:15	5372106	8.296	-126.643	20.398	1326.205	1454.019	0.738	12.532	20.398	7.889
2022-08-24 18:30	5373006	8.285	-125.954	20.315	1322.851	1452.858	0.737	12.474	20.315	7.805
2022-08-24 18:45	5373906	8.272	-125.165	20.217	1318.327	1450.881	0.736	11.521	20.217	7.729
2022-08-24 19:00	5374806	8.274	-125.227	20.104	1317.239	1453.133	0.737	11.791	20.104	7.676
2022-08-24 19:15	5375706	8.253	-124.023	20.013	1313.057	1451.300	0.736	12.035	20.013	7.581
2022-08-24 19:30	5376606	8.242	-123.360	19.922	1310.343	1451.070	0.736	32.774	19.922	7.571
2022-08-24 19:45	5377506	8.233	-122.836	19.848	1307.581	1450.291	0.736	63.169	19.848	7.485
2022-08-24 20:00	5378406	8.237	-123.000	19.769	1305.699	1450.646	0.736	35.600	19.769	7.382
2022-08-24 20:15	5379306	8.215	-121.765	19.705	1303.636	1450.314	0.736	21.473	19.705	7.158
2022-08-24 20:30	5380206	8.207	-121.295	19.643	1301.133	1449.432	0.735	19.193	19.643	7.093
2022-08-24 20:45	5381106	8.204	-121.081	19.575	1299.586	1449.812	0.735	15.390	19.575	7.203
2022-08-24 21:00	5382006	8.212	-121.479	19.507	1296.360	1448.305	0.735	36.593	19.507	7.146
2022-08-24 21:15	5382906	8.196	-120.554	19.439	1296.701	1450.804	0.736	14.889	19.439	7.034
2022-08-24 21:30	5383806	8.192	-120.296	19.375	1290.117	1445.411	0.733	14.695	19.375	7.013
2022-08-24 21:45	5384706	8.188	-120.058	19.306	1287.954	1445.131	0.733	15.405	19.306	6.940

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-24 22:00	5385606	8.203	-120.864	19.232	1285.525	1444.670	0.732	62.227	19.232	6.846
2022-08-24 22:15	5386506	8.185	-119.848	19.174	1282.096	1442.638	0.731	13.599	19.174	6.913
2022-08-24 22:30	5387406	8.183	-119.717	19.097	1278.480	1440.928	0.730	14.280	19.097	6.655
2022-08-24 22:45	5388306	8.181	-119.584	19.033	1275.893	1440.002	0.730	14.114	19.033	6.770
2022-08-24 23:00	5389206	8.195	-120.292	18.951	1271.957	1438.119	0.729	58.199	18.951	6.766
2022-08-24 23:15	5390106	8.178	-119.321	18.872	1269.135	1437.373	0.728	28.302	18.872	6.768
2022-08-24 23:30	5391006	8.176	-119.171	18.792	1264.970	1435.124	0.727	19.996	18.792	6.722
2022-08-24 23:45	5391906	8.174	-119.033	18.703	1260.765	1433.128	0.726	24.421	18.703	6.708
2022-08-25 0:00	5392806	8.191	-119.953	18.605	1257.043	1431.946	0.725	46.356	18.605	6.671
2022-08-25 0:15	5393706	8.173	-118.902	18.527	1253.515	1430.363	0.725	15.220	18.527	6.588
2022-08-25 0:30	5394606	8.172	-118.830	18.442	1250.570	1429.639	0.724	13.733	18.442	6.597
2022-08-25 0:45	5395506	8.172	-118.768	18.351	1248.087	1429.645	0.724	13.281	18.351	6.607
2022-08-25 1:00	5396406	8.190	-119.731	18.257	1244.318	1428.255	0.723	13.459	18.257	6.610
2022-08-25 1:15	5397306	8.175	-118.837	18.163	1241.295	1427.733	0.723	11.470	18.163	6.536
2022-08-25 1:30	5398206	8.177	-118.961	18.068	1239.327	1428.457	0.723	11.232	18.068	6.504
2022-08-25 1:45	5399106	8.178	-118.933	17.984	1235.551	1426.730	0.722	11.203	17.984	***6.495***
2022-08-25 2:00	5400006	8.195	-119.877	17.878	1232.420	1426.452	0.722	16.060	17.878	6.504
2022-08-25 2:15	5400906	8.174	-118.685	17.799	1228.130	1423.984	0.721	11.173	17.799	6.507
2022-08-25 2:30	5401806	8.175	-118.699	17.711	1224.657	1422.715	0.720	11.416	17.711	***6.423***
2022-08-25 2:45	5402706	8.177	-118.737	17.623	1223.550	1424.223	0.721	10.812	17.623	***6.382***
2022-08-25 3:00	5403606	8.196	-119.762	17.513	1220.856	1424.586	0.721	12.246	17.513	***6.382***
2022-08-25 3:15	5404506	8.178	-118.713	17.437	1216.925	1422.401	0.720	9.416	17.437	***6.431***
2022-08-25 3:30	5405406	8.174	-118.480	17.338	1210.792	1418.360	0.718	18.778	17.338	***6.420***
2022-08-25 3:45	5406306	8.171	-118.296	17.257	1204.170	1413.158	0.715	9.525	17.257	***6.419***
2022-08-25 4:00	5407206	8.194	-119.510	17.155	1202.880	1414.881	0.716	12.456	17.155	***6.343***
2022-08-25 4:15	5408106	8.172	-118.265	17.076	1199.928	1413.918	0.715	8.877	17.076	***6.319***
2022-08-25 4:30	5409006	8.176	-118.430	16.972	1199.950	1417.263	0.717	8.921	16.972	***6.346***
2022-08-25 4:45	5409906	8.181	-118.687	16.878	1199.596	1419.873	0.718	8.453	16.878	***6.336***
2022-08-25 5:00	5410806	8.200	-119.689	16.765	1195.061	1418.120	0.717	13.779	16.765	***6.350***
2022-08-25 5:15	5411706	8.183	-118.723	16.683	1194.563	1420.150	0.718	7.709	16.683	***6.350***
2022-08-25 5:30	5412606	8.187	-118.868	16.582	1191.837	1420.174	0.718	8.602	16.582	***6.422***
2022-08-25 5:45	5413506	8.186	-118.787	16.497	1187.456	1417.709	0.717	6.990	16.497	***6.408***
2022-08-25 6:00	5414406	8.206	-119.860	16.385	1182.986	1415.996	0.716	11.045	16.385	***6.406***
2022-08-25 6:15	5415306	8.185	-118.656	16.305	1179.151	1413.980	0.715	6.962	16.305	***6.374***
2022-08-25 6:30	5416206	8.184	-118.554	16.229	1174.484	1410.847	0.713	5.729	16.229	***6.292***
2022-08-25 6:45	5417106	8.183	-118.501	16.135	1168.214	1406.330	0.711	5.889	16.135	***6.173***
2022-08-25 7:00	5418006	8.201	-119.450	16.042	1164.509	1404.876	0.710	6.338	16.042	***6.122***
2022-08-25 7:15	5418906	8.184	-118.451	15.944	1166.738	1410.764	0.713	5.788	15.944	***6.221***
2022-08-25 7:30	5419806	8.185	-118.504	15.858	1161.783	1407.557	0.711	5.458	15.858	***6.293***
2022-08-25 7:45	5420706	8.189	-118.694	15.769	1161.158	1409.714	0.712	5.823	15.769	***6.191***
2022-08-25 8:00	5421606	8.208	-119.698	15.698	1155.791	1405.521	0.710	6.777	15.698	***6.316***
2022-08-25 8:15	5422506	8.185	-118.401	15.674	1152.167	1401.867	0.708	5.424	15.674	***6.240***
2022-08-25 8:30	5423406	8.183	-118.303	15.632	1147.956	1398.116	0.706	5.696	15.632	***6.245***
2022-08-25 8:45	5424306	8.194	-118.885	15.579	1151.296	1403.914	0.709	6.475	15.579	***6.108***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-25 9:00	5425206	8.212	-119.836	15.554	1150.838	1404.189	0.709	5.738	15.554	***6.193***
2022-08-25 9:15	5426106	8.184	-118.313	15.539	1163.288	1419.878	0.717	6.641	15.539	***6.142***
2022-08-25 9:30	5427006	8.196	-118.980	15.550	1156.388	1411.065	0.713	6.465	15.550	***6.234***
2022-08-25 9:45	5427906	8.182	-118.203	15.555	1154.160	1408.197	0.711	5.120	15.555	***6.116***
2022-08-25 10:00	5428806	8.222	-120.425	15.544	1151.275	1405.043	0.709	18.845	15.544	***6.223***
2022-08-25 10:15	5429706	8.204	-119.381	15.539	1156.347	1411.380	0.713	7.227	15.539	***6.326***
2022-08-25 10:30	5430606	8.205	-119.481	15.524	1157.944	1413.821	0.714	6.212	15.524	***6.354***
2022-08-25 10:45	5431506	8.165	-117.233	15.522	1161.394	1418.118	0.716	5.727	15.522	***6.391***
2022-08-25 11:00	5432406	8.223	-120.473	15.561	1165.605	1421.968	0.718	6.789	15.561	***6.375***
2022-08-25 11:15	5433306	8.201	-119.293	15.618	1171.483	1427.230	0.721	5.546	15.618	6.658
2022-08-25 11:30	5434206	8.200	-119.238	15.709	1170.691	1423.274	0.719	5.833	15.709	6.913
2022-08-25 11:45	5435106	8.184	-118.406	15.812	1174.682	1424.719	0.720	5.272	15.812	6.967
2022-08-25 12:00	5436006	8.211	-119.982	15.950	1178.270	1424.506	0.720	5.392	15.950	6.884
2022-08-25 12:15	5436906	8.176	-118.058	16.031	1179.579	1423.422	0.720	4.489	16.031	6.543
2022-08-25 12:30	5437806	8.169	-117.691	16.149	1181.652	1422.052	0.719	4.604	16.149	6.775
2022-08-25 12:45	5438706	8.159	-117.159	16.235	1180.079	1417.351	0.716	4.226	16.235	6.539
2022-08-25 13:00	5439606	8.195	-119.250	16.332	1170.155	1402.331	0.709	6.983	16.332	***6.252***
2022-08-25 13:15	5440506	8.156	-117.099	16.387	1171.538	1402.215	0.709	4.902	16.387	6.650
2022-08-25 13:30	5441406	8.147	-116.632	16.473	1172.169	1400.227	0.708	4.065	16.473	6.789
2022-08-25 13:45	5442306	8.174	-118.175	16.552	1169.319	1394.302	0.704	24.591	16.552	6.850
2022-08-25 14:00	5443206	8.221	-120.790	16.642	1171.385	1393.912	0.704	4.929	16.642	6.800
2022-08-25 14:15	5444106	8.206	-120.015	16.751	1174.272	1393.889	0.704	3.702	16.751	6.803
2022-08-25 14:30	5445006	8.202	-119.867	16.877	1181.190	1398.109	0.707	5.201	16.877	6.773
2022-08-25 14:45	5445906	8.176	-118.449	17.047	1184.615	1396.791	0.706	5.192	17.047	6.830
2022-08-25 15:00	5446806	8.238	-122.063	17.353	1213.754	1421.346	0.719	4.232	17.353	7.224
2022-08-25 15:15	5447706	8.242	-122.325	17.490	1218.850	1422.961	0.720	6.888	17.490	7.504
2022-08-25 15:30	5448606	8.212	-120.718	17.685	1229.527	1429.195	0.724	4.342	17.685	7.954
2022-08-25 15:45	5449506	8.248	-122.836	17.911	1239.525	1433.636	0.726	4.547	17.911	8.344
2022-08-25 16:00	5450406	8.267	-124.002	18.134	1252.497	1441.537	0.730	11.053	18.134	8.367
2022-08-25 16:15	5451306	8.234	-122.235	18.295	1257.409	1442.091	0.731	5.082	18.295	8.696
2022-08-25 16:30	5452206	8.268	-124.249	18.595	1263.687	1439.834	0.730	5.546	18.595	8.704
2022-08-25 16:45	5453106	8.258	-123.863	18.942	1259.673	1424.490	0.722	5.101	18.942	8.376
2022-08-25 17:00	5454006	8.269	-124.626	19.306	1258.092	1411.619	0.715	5.569	19.306	8.145
2022-08-25 17:15	5454906	8.287	-125.735	19.550	1263.463	1410.265	0.714	7.055	19.550	8.378
2022-08-25 17:30	5455806	8.289	-125.864	19.608	1268.399	1414.016	0.716	6.912	19.608	8.310
2022-08-25 17:45	5456706	8.298	-126.383	19.649	1265.686	1409.765	0.714	6.687	19.649	8.353
2022-08-25 18:00	5457606	8.334	-128.443	19.665	1270.298	1414.412	0.717	6.533	19.665	8.343
2022-08-25 18:15	5458506	8.352	-129.540	19.791	1274.315	1415.118	0.717	5.564	19.791	8.395
2022-08-25 18:30	5459406	8.366	-130.413	20.033	1270.880	1404.091	0.711	7.736	20.033	8.345
2022-08-25 18:45	5460306	8.386	-131.609	20.190	1272.647	1401.383	0.710	6.931	20.190	8.299
2022-08-25 19:00	5461206	8.387	-131.710	20.280	1267.074	1392.610	0.705	6.062	20.280	8.186
2022-08-25 19:15	5462106	8.365	-130.434	20.230	1268.357	1395.488	0.707	5.500	20.230	8.085
2022-08-25 19:30	5463006	8.344	-129.199	20.135	1266.001	1395.683	0.707	5.282	20.135	8.016
2022-08-25 19:45	5463906	8.325	-128.105	20.033	1260.405	1392.504	0.705	12.987	20.033	7.928

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-25 20:00	5464806	8.314	-127.454	19.909	1254.022	1389.086	0.703	7.583	19.909	7.875
2022-08-25 20:15	5465706	8.287	-125.830	19.794	1248.605	1386.461	0.702	5.782	19.794	7.802
2022-08-25 20:30	5466606	8.272	-124.941	19.689	1244.230	1384.704	0.701	6.333	19.689	7.718
2022-08-25 20:45	5467506	8.263	-124.383	19.570	1244.216	1388.202	0.703	5.760	19.570	7.626
2022-08-25 21:00	5468406	8.265	-124.490	19.469	1239.275	1385.667	0.701	7.138	19.469	7.520
2022-08-25 21:15	5469306	8.245	-123.274	19.356	1241.793	1391.836	0.705	7.627	19.356	7.418
2022-08-25 21:30	5470206	8.237	-122.821	19.322	1228.497	1377.937	0.697	8.242	19.322	7.317
2022-08-25 21:45	5471106	8.230	-122.416	19.249	1226.760	1378.129	0.697	8.442	19.249	7.266
2022-08-25 22:00	5472006	8.239	-122.874	19.204	1223.992	1376.349	0.696	10.611	19.204	7.162
2022-08-25 22:15	5472906	8.219	-121.751	19.125	1230.019	1385.474	0.701	8.586	19.125	7.108
2022-08-25 22:30	5473806	8.215	-121.510	19.092	1226.573	1382.589	0.700	9.120	19.092	7.046
2022-08-25 22:45	5474706	8.212	-121.298	19.046	1224.882	1382.065	0.699	9.786	19.046	7.011
2022-08-25 23:00	5475606	8.224	-121.973	19.028	1215.292	1371.754	0.694	10.017	19.028	6.931
2022-08-25 23:15	5476506	8.210	-121.193	18.993	1218.331	1376.228	0.696	9.728	18.993	6.832
2022-08-25 23:30	5477406	8.208	-121.043	18.976	1218.339	1376.731	0.696	10.368	18.976	6.837
2022-08-25 23:45	5478306	8.208	-121.050	18.960	1211.785	1369.823	0.693	10.845	18.960	6.781
2022-08-26 0:00	5479206	8.221	-121.758	18.956	1203.544	1360.611	0.688	27.478	18.956	6.736
2022-08-26 0:15	5480106	8.207	-120.940	18.894	1210.762	1370.619	0.693	10.122	18.894	6.723
2022-08-26 0:30	5481006	8.204	-120.785	18.864	1207.113	1367.377	0.691	9.953	18.864	6.704
2022-08-26 0:45	5481906	8.199	-120.506	18.846	1199.427	1359.200	0.687	10.299	18.846	6.664
2022-08-26 1:00	5482806	8.212	-121.200	18.789	1194.794	1355.598	0.685	12.772	18.789	6.594
2022-08-26 1:15	5483706	8.197	-120.311	18.741	1196.887	1359.409	0.687	10.939	18.741	6.573
2022-08-26 1:30	5484606	8.196	-120.282	18.697	1194.870	1358.413	0.687	10.610	18.697	6.539
2022-08-26 1:45	5485506	8.195	-120.194	18.658	1192.362	1356.687	0.686	10.586	18.658	6.516
2022-08-26 2:00	5486406	8.208	-120.904	18.639	1176.087	1338.725	0.676	15.580	18.639	***6.483***
2022-08-26 2:15	5487306	8.186	-119.662	18.589	1182.821	1347.864	0.681	10.718	18.589	***6.424***
2022-08-26 2:30	5488206	8.187	-119.729	18.568	1172.102	1336.261	0.675	10.126	18.568	***6.420***
2022-08-26 2:45	5489106	8.184	-119.543	18.525	1167.030	1331.716	0.672	12.255	18.525	***6.392***
2022-08-26 3:00	5490006	8.197	-120.227	18.439	1171.252	1339.069	0.676	14.804	18.439	***6.349***
2022-08-26 3:15	5490906	8.188	-119.669	18.383	1170.737	1340.106	0.677	10.725	18.383	***6.343***
2022-08-26 3:30	5491806	8.192	-119.877	18.346	1156.985	1325.446	0.669	10.234	18.346	***6.370***
2022-08-26 3:45	5492706	8.190	-119.762	18.279	1161.257	1332.293	0.673	12.017	18.279	***6.316***
2022-08-26 4:00	5493606	8.214	-121.062	18.186	1155.002	1327.803	0.670	17.864	18.186	***6.285***
2022-08-26 4:15	5494506	8.192	-119.829	18.134	1153.619	1327.753	0.670	11.164	18.134	***6.308***
2022-08-26 4:30	5495406	8.195	-119.956	18.061	1150.829	1326.646	0.670	15.393	18.061	***6.311***
2022-08-26 4:45	5496306	8.199	-120.111	17.983	1154.003	1332.606	0.673	12.506	17.983	***6.256***
2022-08-26 5:00	5497206	8.215	-120.978	17.903	1148.263	1328.324	0.670	13.103	17.903	***6.350***
2022-08-26 5:15	5498106	8.196	-119.905	17.839	1156.902	1340.212	0.677	11.897	17.839	***6.261***
2022-08-26 5:30	5499006	8.193	-119.736	17.773	1153.831	1338.619	0.676	11.001	17.773	***6.259***
2022-08-26 5:45	5499906	8.198	-119.960	17.727	1148.579	1333.875	0.673	17.127	17.727	***6.278***
2022-08-26 6:00	5500806	8.216	-120.962	17.656	1138.003	1323.675	0.668	14.873	17.656	***6.264***
2022-08-26 6:15	5501706	8.202	-120.146	17.589	1142.902	1331.369	0.672	11.509	17.589	***6.288***
2022-08-26 6:30	5502606	8.190	-119.472	17.531	1140.369	1330.109	0.671	11.189	17.531	***6.281***
2022-08-26 6:45	5503506	8.194	-119.658	17.478	1137.193	1327.979	0.670	11.689	17.478	***6.364***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-26 7:00	5504406	8.218	-120.947	17.414	1132.100	1323.931	0.668	16.875	17.414	***6.348***
2022-08-26 7:15	5505306	8.204	-120.187	17.376	1128.635	1320.994	0.666	11.620	17.376	***6.378***
2022-08-26 7:30	5506206	8.208	-120.335	17.307	1133.804	1329.089	0.671	10.495	17.307	***6.386***
2022-08-26 7:45	5507106	8.205	-120.203	17.278	1128.172	1323.352	0.667	11.290	17.278	***6.369***
2022-08-26 8:00	5508006	8.232	-121.663	17.179	1128.613	1326.818	0.669	15.711	17.179	***6.411***
2022-08-26 8:15	5508906	8.217	-120.771	17.144	1133.876	1334.064	0.673	12.648	17.144	***6.404***
2022-08-26 8:30	5509806	8.203	-119.989	17.101	1136.380	1338.273	0.675	13.725	17.101	***6.416***
2022-08-26 8:45	5510706	8.213	-120.542	17.091	1129.994	1331.057	0.671	11.346	17.091	6.510
2022-08-26 9:00	5511606	8.233	-121.675	17.088	1130.783	1332.077	0.672	18.365	17.088	***6.472***
2022-08-26 9:15	5512506	8.218	-120.840	17.082	1133.719	1335.734	0.674	15.311	17.082	6.503
2022-08-26 9:30	5513406	8.225	-121.226	17.130	1123.069	1321.756	0.667	12.720	17.130	***6.442***
2022-08-26 9:45	5514306	8.234	-121.715	17.109	1132.568	1333.552	0.673	13.035	17.109	***6.499***
2022-08-26 10:00	5515206	8.258	-123.072	17.099	1139.244	1341.733	0.677	103.646	17.099	6.552
2022-08-26 10:15	5516106	8.238	-121.965	17.114	1140.821	1343.119	0.678	12.757	17.114	6.615
2022-08-26 10:30	5517006	8.234	-121.760	17.180	1127.227	1325.149	0.668	12.894	17.180	6.680
2022-08-26 10:45	5517906	8.244	-122.330	17.206	1134.571	1333.015	0.673	11.654	17.206	6.600
2022-08-26 11:00	5518806	8.265	-123.515	17.250	1142.714	1341.267	0.677	17.219	17.250	6.717
2022-08-26 11:15	5519706	8.254	-122.926	17.321	1143.345	1339.871	0.676	11.217	17.321	6.859
2022-08-26 11:30	5520606	8.264	-123.527	17.409	1149.656	1344.597	0.679	11.088	17.409	6.907
2022-08-26 11:45	5521506	8.266	-123.684	17.460	1155.093	1349.415	0.681	11.295	17.460	6.978
2022-08-26 12:00	5522406	8.292	-125.175	17.522	1158.974	1352.079	0.683	82.034	17.522	7.193
2022-08-26 12:15	5523306	8.285	-124.784	17.575	1164.977	1357.496	0.686	13.682	17.575	7.307
2022-08-26 12:30	5524206	8.282	-124.609	17.615	1167.004	1358.655	0.686	13.020	17.615	7.305
2022-08-26 12:45	5525106	8.283	-124.722	17.686	1168.416	1358.153	0.686	13.573	17.686	7.482
2022-08-26 13:00	5526006	8.314	-126.553	17.852	1172.149	1357.479	0.686	14.138	17.852	7.566
2022-08-26 13:15	5526906	8.238	-122.313	17.961	1173.519	1355.803	0.685	12.429	17.961	7.664
2022-08-26 13:30	5527806	8.302	-125.952	18.093	1183.892	1363.808	0.689	11.808	18.093	7.674
2022-08-26 13:45	5528706	8.288	-125.244	18.226	1183.079	1358.907	0.687	11.417	18.226	7.831
2022-08-26 14:00	5529606	8.343	-128.403	18.379	1192.460	1365.098	0.690	133.357	18.379	7.851
2022-08-26 14:15	5530506	8.341	-128.322	18.512	1188.570	1356.705	0.686	14.702	18.512	8.050
2022-08-26 14:30	5531406	8.351	-128.975	18.635	1193.394	1358.549	0.687	15.764	18.635	8.033
2022-08-26 14:45	5532306	8.357	-129.311	18.715	1198.767	1362.290	0.689	14.088	18.715	8.102
2022-08-26 15:00	5533206	8.374	-130.363	18.851	1197.501	1356.847	0.686	15.156	18.851	8.159
2022-08-26 15:15	5534106	8.367	-129.988	19.002	1202.277	1357.846	0.686	11.686	19.002	8.257
2022-08-26 15:30	5535006	8.357	-129.499	19.170	1214.200	1366.333	0.691	11.889	19.170	8.268
2022-08-26 15:45	5535906	8.350	-129.192	19.283	1216.806	1365.952	0.691	12.032	19.283	8.358
2022-08-26 16:00	5536806	8.391	-131.557	19.459	1225.514	1370.578	0.693	120.778	19.459	8.448
2022-08-26 16:15	5537706	8.395	-131.845	19.586	1227.006	1368.519	0.692	17.663	19.586	8.521
2022-08-26 16:30	5538606	8.365	-130.212	19.696	1229.516	1368.113	0.692	26.470	19.696	8.473
2022-08-26 16:45	5539506	8.401	-132.303	19.862	1235.101	1369.505	0.693	16.410	19.862	8.526
2022-08-26 17:00	5540406	8.425	-133.700	19.978	1243.844	1375.826	0.696	13.773	19.978	8.477
2022-08-26 17:15	5541306	8.423	-133.636	20.040	1243.140	1373.240	0.695	12.104	20.040	8.437
2022-08-26 17:30	5542206	8.407	-132.782	20.094	1245.334	1374.086	0.695	12.212	20.094	8.371
2022-08-26 17:45	5543106	8.425	-133.786	20.160	1242.061	1368.564	0.692	12.352	20.160	8.396

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-26 18:00	5544006	8.433	-134.246	20.184	1240.215	1365.853	0.691	225.445	20.184	8.269
2022-08-26 18:15	5544906	8.420	-133.543	20.173	1240.648	1366.633	0.691	15.655	20.173	8.207
2022-08-26 18:30	5545806	8.423	-133.681	20.122	1239.916	1367.294	0.692	16.409	20.122	8.118
2022-08-26 18:45	5546706	8.420	-133.464	20.071	1242.583	1371.727	0.694	16.616	20.071	8.008
2022-08-26 19:00	5547606	8.390	-131.733	19.979	1239.010	1370.424	0.693	16.273	19.979	7.855
2022-08-26 19:15	5548506	8.394	-131.943	19.898	1238.650	1372.387	0.694	15.072	19.898	7.715
2022-08-26 19:30	5549406	8.396	-132.005	19.825	1234.135	1369.497	0.693	14.832	19.825	7.677
2022-08-26 19:45	5550306	8.402	-132.329	19.757	1233.339	1370.581	0.693	14.368	19.757	7.558
2022-08-26 20:00	5551206	8.406	-132.513	19.714	1230.408	1368.589	0.692	203.891	19.714	7.558
2022-08-26 20:15	5552106	8.390	-131.614	19.677	1233.560	1373.178	0.695	15.487	19.677	7.488
2022-08-26 20:30	5553006	8.364	-130.162	19.649	1230.651	1370.745	0.693	14.871	19.649	7.363
2022-08-26 20:45	5553906	8.368	-130.355	19.618	1229.128	1369.944	0.693	15.007	19.618	7.202
2022-08-26 21:00	5554806	8.358	-129.766	19.570	1225.314	1367.104	0.692	17.311	19.570	7.079
2022-08-26 21:15	5555706	8.364	-130.098	19.552	1220.693	1362.459	0.689	14.566	19.552	7.128
2022-08-26 21:30	5556606	8.348	-129.180	19.502	1196.717	1337.137	0.676	13.970	19.502	7.036
2022-08-26 21:45	5557506	8.332	-128.236	19.459	1215.440	1359.311	0.687	14.228	19.459	6.909
2022-08-26 22:00	5558406	8.356	-129.597	19.405	1217.334	1362.996	0.689	31.419	19.405	6.885
2022-08-26 22:15	5559306	8.342	-128.798	19.407	1205.582	1349.766	0.682	15.290	19.407	6.889
2022-08-26 22:30	5560206	8.341	-128.717	19.360	1199.905	1344.756	0.680	16.008	19.360	6.726
2022-08-26 22:45	5561106	8.340	-128.651	19.295	1204.391	1351.669	0.683	15.902	19.295	6.645
2022-08-26 23:00	5562006	8.351	-129.218	19.221	1207.142	1356.919	0.686	17.611	19.221	6.657
2022-08-26 23:15	5562906	8.309	-126.841	19.173	1212.091	1363.897	0.690	14.544	19.173	6.555
2022-08-26 23:30	5563806	8.306	-126.615	19.095	1215.618	1370.161	0.693	14.825	19.095	***6.431***
2022-08-26 23:45	5564706	8.307	-126.641	19.023	1217.720	1374.640	0.695	14.873	19.023	***6.468***
2022-08-27 0:00	5565606	8.322	-127.442	18.925	1221.386	1381.698	0.699	48.735	18.925	***6.213***
2022-08-27 0:15	5566506	8.305	-126.441	18.855	1223.465	1386.157	0.701	27.963	18.855	***6.356***
2022-08-27 0:30	5567406	8.286	-125.329	18.765	1234.152	1401.004	0.709	26.445	18.765	***6.193***
2022-08-27 0:45	5568306	8.273	-124.583	18.705	1236.012	1404.918	0.711	24.629	18.705	***5.910***
2022-08-27 1:00	5569206	8.313	-126.820	18.664	1224.437	1393.031	0.705	29.876	18.664	***6.005***
2022-08-27 1:15	5570106	8.298	-125.971	18.639	1224.982	1394.404	0.706	24.729	18.639	***6.018***
2022-08-27 1:30	5571006	8.291	-125.535	18.573	1232.401	1404.859	0.711	21.854	18.573	***5.820***
2022-08-27 1:45	5571906	8.293	-125.625	18.494	1235.025	1410.257	0.714	21.201	18.494	***5.636***
2022-08-27 2:00	5572806	8.319	-127.077	18.414	1234.229	1411.839	0.715	89.024	18.414	***5.965***
2022-08-27 2:15	5573706	8.293	-125.568	18.356	1236.702	1416.458	0.717	30.760	18.356	***6.018***
2022-08-27 2:30	5574606	8.299	-125.859	18.265	1242.755	1426.237	0.722	30.185	18.265	***5.610***
2022-08-27 2:45	5575506	8.297	-125.744	18.197	1244.188	1429.984	0.724	23.019	18.197	***5.574***
2022-08-27 3:00	5576406	8.310	-126.443	18.110	1245.638	1434.409	0.727	24.775	18.110	***5.619***
2022-08-27 3:15	5577306	8.297	-125.663	18.072	1249.933	1440.568	0.730	20.092	18.072	***5.927***
2022-08-27 3:30	5578206	8.289	-125.227	18.024	1248.904	1440.876	0.730	19.527	18.024	***5.885***
2022-08-27 3:45	5579106	8.289	-125.201	18.002	1247.794	1440.295	0.730	19.765	18.002	***5.903***
2022-08-27 4:00	5580006	8.303	-125.964	17.972	1236.271	1427.954	0.723	68.181	17.972	***5.681***
2022-08-27 4:15	5580906	8.286	-124.991	17.938	1237.357	1430.266	0.724	24.832	17.938	***5.743***
2022-08-27 4:30	5581806	8.288	-125.082	17.896	1236.506	1430.632	0.724	24.057	17.896	***5.658***
2022-08-27 4:45	5582706	8.290	-125.175	17.861	1233.291	1428.001	0.723	23.524	17.861	***5.808***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-27 5:00	5583606	8.284	-124.850	17.822	1231.407	1427.058	0.723	31.910	17.822	***5.787***
2022-08-27 5:15	5584506	8.248	-122.776	17.787	1236.832	1434.440	0.726	31.326	17.787	***5.344***
2022-08-27 5:30	5585406	8.238	-122.221	17.765	1239.950	1438.767	0.729	26.394	17.765	***5.227***
2022-08-27 5:45	5586306	8.245	-122.616	17.766	1241.305	1440.311	0.730	24.136	17.766	***5.007***
2022-08-27 6:00	5587206	8.277	-124.412	17.757	1240.416	1439.555	0.729	123.142	17.757	***5.068***
2022-08-27 6:15	5588106	8.248	-122.766	17.752	1239.493	1438.648	0.729	32.505	17.752	***4.688***
2022-08-27 6:30	5589006	8.244	-122.578	17.719	1235.728	1435.338	0.727	32.611	17.719	***5.086***
2022-08-27 6:45	5589906	8.235	-121.999	17.647	1232.215	1433.537	0.726	33.097	17.647	***5.005***
2022-08-27 7:00	5590806	8.237	-122.111	17.619	1220.285	1420.535	0.719	39.768	17.619	***4.746***
2022-08-27 7:15	5591706	8.221	-121.176	17.553	1219.759	1422.036	0.720	34.019	17.553	***4.620***
2022-08-27 7:30	5592606	8.204	-120.244	17.529	1213.468	1415.448	0.716	32.616	17.529	***4.298***
2022-08-27 7:45	5593506	8.200	-120.013	17.517	1218.743	1421.966	0.720	57.112	17.517	***4.170***
2022-08-27 8:00	5594406	8.240	-122.235	17.511	1216.290	1419.307	0.718	198.086	17.511	***4.152***
2022-08-27 8:15	5595306	8.179	-118.818	17.470	1216.979	1421.402	0.719	43.625	17.470	***4.149***
2022-08-27 8:30	5596206	8.218	-120.955	17.443	1219.875	1425.663	0.722	41.317	17.443	***4.341***
2022-08-27 8:45	5597106	8.234	-121.837	17.401	1217.195	1423.848	0.721	39.044	17.401	***4.932***
2022-08-27 9:00	5598006	8.227	-121.465	17.398	1208.101	1413.325	0.715	39.177	17.398	***5.022***
2022-08-27 9:15	5598906	8.217	-120.881	17.315	1208.321	1416.194	0.717	31.244	17.315	***4.512***
2022-08-27 9:30	5599806	8.211	-120.511	17.260	1207.707	1417.205	0.717	30.380	17.260	***5.071***
2022-08-27 9:45	5600706	8.214	-120.690	17.240	1207.544	1417.658	0.717	29.309	17.240	***5.683***
2022-08-27 10:00	5601606	8.249	-122.635	17.257	1208.185	1417.863	0.717	121.725	17.257	***5.592***
2022-08-27 10:15	5602506	8.245	-122.406	17.241	1220.946	1433.379	0.726	35.233	17.241	***5.489***
2022-08-27 10:30	5603406	8.259	-123.179	17.234	1226.232	1439.802	0.729	35.738	17.234	***5.674***
2022-08-27 10:45	5604306	8.261	-123.308	17.222	1226.638	1440.652	0.729	35.321	17.222	***5.735***
2022-08-27 11:00	5605206	8.262	-123.358	17.236	1221.732	1434.435	0.726	31.375	17.236	***5.827***
2022-08-27 11:15	5606106	8.291	-124.972	17.211	1221.845	1435.380	0.727	30.297	17.211	***6.214***
2022-08-27 11:30	5607006	8.283	-124.526	17.165	1227.667	1443.706	0.731	29.788	17.165	***6.044***
2022-08-27 11:45	5607906	8.286	-124.681	17.145	1229.164	1446.119	0.732	29.088	17.145	***6.338***
2022-08-27 12:00	5608806	8.335	-127.385	17.163	1228.232	1444.459	0.731	74.540	17.163	6.726
2022-08-27 12:15	5609706	8.308	-125.873	17.168	1227.618	1443.548	0.731	43.150	17.168	7.158
2022-08-27 12:30	5610606	8.311	-126.069	17.202	1228.550	1443.569	0.731	39.919	17.202	7.167
2022-08-27 12:45	5611506	8.344	-127.919	17.165	1234.174	1451.380	0.735	39.722	17.165	6.862
2022-08-27 13:00	5612406	8.342	-127.802	17.207	1225.276	1439.547	0.729	39.391	17.207	6.880
2022-08-27 13:15	5613306	8.326	-126.905	17.225	1226.274	1440.142	0.729	38.460	17.225	7.436
2022-08-27 13:30	5614206	8.327	-127.027	17.262	1228.953	1442.096	0.730	38.583	17.262	7.824
2022-08-27 13:45	5615106	8.316	-126.383	17.246	1233.938	1448.453	0.734	37.501	17.246	7.484
2022-08-27 14:00	5616006	8.387	-130.370	17.284	1231.070	1443.871	0.731	74.483	17.284	7.707
2022-08-27 14:15	5616906	8.367	-129.225	17.279	1232.097	1445.235	0.732	54.701	17.279	7.879
2022-08-27 14:30	5617806	8.378	-129.836	17.241	1234.132	1448.850	0.734	49.845	17.241	7.887
2022-08-27 14:45	5618706	8.379	-129.929	17.254	1234.738	1449.130	0.734	47.413	17.254	8.023
2022-08-27 15:00	5619606	8.392	-130.663	17.267	1228.864	1441.815	0.730	40.295	17.267	7.738
2022-08-27 15:15	5620506	8.379	-129.912	17.267	1231.846	1445.328	0.732	40.901	17.267	8.179
2022-08-27 15:30	5621406	8.361	-128.930	17.344	1228.953	1439.449	0.729	39.497	17.344	8.445
2022-08-27 15:45	5622306	8.340	-127.826	17.418	1227.397	1435.239	0.727	40.264	17.418	8.433

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-27 16:00	5623206	8.361	-129.020	17.575	1226.709	1429.413	0.724	85.867	17.575	8.360
2022-08-27 16:15	5624106	8.342	-128.009	17.620	1228.651	1430.267	0.724	58.048	17.620	8.311
2022-08-27 16:30	5625006	8.336	-127.704	17.662	1233.349	1434.387	0.726	55.530	17.662	8.442
2022-08-27 16:45	5625906	8.337	-127.764	17.747	1229.790	1427.552	0.723	54.041	17.747	8.771
2022-08-27 17:00	5626806	8.343	-128.136	17.857	1224.022	1417.410	0.717	49.416	17.857	8.694
2022-08-27 17:15	5627706	8.347	-128.367	17.872	1226.048	1419.266	0.718	43.636	17.872	8.523
2022-08-27 17:30	5628606	8.337	-127.864	17.945	1224.141	1414.776	0.716	42.830	17.945	8.516
2022-08-27 17:45	5629506	8.381	-130.370	17.974	1239.783	1431.943	0.725	42.362	17.974	8.507
2022-08-27 18:00	5630406	8.423	-132.718	18.029	1228.341	1417.005	0.717	80.961	18.029	8.711
2022-08-27 18:15	5631306	8.399	-131.385	18.041	1231.864	1420.691	0.719	52.828	18.041	8.867
2022-08-27 18:30	5632206	8.392	-130.966	18.022	1235.681	1425.697	0.722	51.811	18.022	8.644
2022-08-27 18:45	5633106	8.381	-130.332	17.954	1238.599	1431.213	0.725	49.475	17.954	8.714
2022-08-27 19:00	5634006	8.418	-132.351	17.865	1214.766	1406.437	0.712	50.869	17.865	8.899
2022-08-27 19:15	5634906	8.383	-130.384	17.849	1217.040	1409.552	0.713	39.308	17.849	8.601
2022-08-27 19:30	5635806	8.378	-130.126	17.862	1217.479	1409.659	0.713	37.432	17.862	8.514
2022-08-27 19:45	5636706	8.345	-128.291	17.896	1215.161	1405.921	0.711	36.650	17.896	8.070
2022-08-27 20:00	5637606	8.366	-129.516	17.954	1212.295	1400.814	0.709	104.281	17.954	8.030
2022-08-27 20:15	5638506	8.351	-128.665	17.953	1214.538	1403.447	0.710	41.501	17.953	8.046
2022-08-27 20:30	5639406	8.341	-128.047	17.915	1216.724	1407.141	0.712	43.465	17.915	8.189
2022-08-27 20:45	5640306	8.337	-127.811	17.837	1211.440	1403.462	0.710	37.676	17.837	7.923
2022-08-27 21:00	5641206	8.343	-128.145	17.852	1198.007	1387.414	0.702	38.202	17.852	7.574
2022-08-27 21:15	5642106	8.318	-126.700	17.682	1193.210	1387.076	0.701	31.933	17.682	7.328
2022-08-27 21:30	5643006	8.316	-126.562	17.609	1191.405	1387.234	0.701	32.490	17.609	7.349
2022-08-27 21:45	5643906	8.317	-126.557	17.574	1189.402	1385.999	0.701	32.691	17.574	7.224
2022-08-27 22:00	5644806	8.336	-127.628	17.588	1181.942	1376.871	0.696	87.101	17.588	6.964
2022-08-27 22:15	5645706	8.320	-126.705	17.522	1183.103	1380.235	0.698	42.289	17.522	6.971
2022-08-27 22:30	5646606	8.317	-126.548	17.472	1188.901	1388.563	0.702	40.299	17.472	6.971
2022-08-27 22:45	5647506	8.295	-125.241	17.379	1190.239	1392.991	0.704	38.750	17.379	6.953
2022-08-27 23:00	5648406	8.313	-126.243	17.293	1157.862	1357.718	0.686	40.700	17.293	6.709
2022-08-27 23:15	5649306	8.310	-126.023	17.249	1169.427	1372.638	0.693	34.307	17.249	6.942
2022-08-27 23:30	5650206	8.311	-126.073	17.216	1172.741	1377.540	0.696	32.825	17.216	6.967
2022-08-27 23:45	5651106	8.301	-125.542	17.187	1171.527	1377.022	0.696	32.785	17.187	7.376
2022-08-28 0:00	5652006	8.331	-127.175	17.142	1141.334	1342.896	0.678	92.944	17.142	6.943
2022-08-28 0:15	5652906	8.305	-125.713	17.080	1147.427	1351.932	0.682	31.593	17.080	6.825
2022-08-28 0:30	5653806	8.303	-125.566	17.054	1150.816	1356.730	0.685	30.654	17.054	6.713
2022-08-28 0:45	5654706	8.300	-125.382	17.013	1152.695	1360.182	0.687	30.489	17.013	6.505
2022-08-28 1:00	5655606	8.302	-125.470	16.995	1131.661	1335.902	0.674	26.016	16.995	6.649
2022-08-28 1:15	5656506	8.294	-125.003	16.942	1136.177	1342.851	0.678	21.178	16.942	6.880
2022-08-28 1:30	5657406	8.286	-124.536	16.906	1137.871	1345.951	0.679	20.521	16.906	6.749
2022-08-28 1:45	5658306	8.276	-123.978	16.819	1137.785	1348.485	0.680	20.998	16.819	***6.294***
2022-08-28 2:00	5659206	8.310	-125.825	16.778	1119.099	1327.570	0.669	470.927	16.778	***6.234***
2022-08-28 2:15	5660106	8.288	-124.617	16.740	1117.549	1326.885	0.669	35.336	16.740	***6.304***
2022-08-28 2:30	5661006	8.283	-124.292	16.714	1124.084	1335.438	0.674	36.666	16.714	***6.399***
2022-08-28 2:45	5661906	8.268	-123.463	16.669	1128.141	1341.638	0.677	28.102	16.669	***6.460***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-28 3:00	5662806	8.255	-122.724	16.609	1094.709	1303.629	0.657	38.037	16.609	6.544
2022-08-28 3:15	5663706	8.250	-122.395	16.534	1108.108	1321.865	0.666	34.538	16.534	***5.500***
2022-08-28 3:30	5664606	8.247	-122.211	16.485	1113.717	1330.033	0.671	32.922	16.485	***5.843***
2022-08-28 3:45	5665506	8.235	-121.524	16.455	1114.038	1331.312	0.671	36.100	16.455	***6.328***
2022-08-28 4:00	5666406	8.253	-122.499	16.391	1080.104	1292.659	0.651	57.939	16.391	***6.109***
2022-08-28 4:15	5667306	8.280	-123.971	16.337	1090.818	1307.107	0.658	35.575	16.337	***5.977***
2022-08-28 4:30	5668206	8.226	-120.966	16.310	1094.990	1312.898	0.661	31.695	16.310	***6.058***
2022-08-28 4:45	5669106	8.270	-123.405	16.259	1095.840	1315.457	0.663	25.783	16.259	***5.577***
2022-08-28 5:00	5670006	8.253	-122.437	16.219	1072.183	1288.233	0.648	29.361	16.219	***5.947***
2022-08-28 5:15	5670906	8.235	-121.415	16.196	1076.788	1294.459	0.652	28.376	16.196	***5.561***
2022-08-28 5:30	5671806	8.218	-120.449	16.163	1082.299	1302.059	0.656	27.388	16.163	***5.568***
2022-08-28 5:45	5672706	8.204	-119.619	16.108	1081.848	1303.188	0.656	26.325	16.108	***5.234***
2022-08-28 6:00	5673606	8.250	-122.194	16.072	1069.265	1289.080	0.649	56.473	16.072	***5.292***
2022-08-28 6:15	5674506	8.219	-120.440	16.000	1072.103	1294.664	0.652	39.703	16.000	***4.936***
2022-08-28 6:30	5675406	8.239	-121.534	15.964	1063.956	1285.870	0.647	39.558	15.964	***5.727***
2022-08-28 6:45	5676306	8.238	-121.462	15.952	1072.391	1296.437	0.653	36.452	15.952	***5.479***
2022-08-28 7:00	5677206	8.229	-120.969	15.915	1053.753	1274.989	0.641	29.991	15.915	***5.306***
2022-08-28 7:15	5678106	8.221	-120.521	15.893	1058.099	1280.901	0.644	33.673	15.893	***5.347***
2022-08-28 7:30	5679006	8.222	-120.523	15.867	1065.615	1290.782	0.650	31.656	15.867	***5.025***
2022-08-28 7:45	5679906	8.226	-120.761	15.854	1063.812	1288.996	0.649	28.914	15.854	***5.290***
2022-08-28 8:00	5680806	8.263	-122.828	15.831	1055.099	1279.104	0.643	19.369	15.831	***5.173***
2022-08-28 8:15	5681706	8.254	-122.316	15.812	1054.418	1278.844	0.643	19.724	15.812	***5.387***
2022-08-28 8:30	5682606	8.260	-122.652	15.811	1055.876	1280.636	0.644	25.178	15.811	***5.399***
2022-08-28 8:45	5683506	8.289	-124.280	15.827	1056.822	1281.321	0.645	23.173	15.827	***5.302***
2022-08-28 9:00	5684406	8.282	-123.892	15.828	1057.364	1281.927	0.645	20.139	15.828	***5.207***
2022-08-28 9:15	5685306	8.278	-123.644	15.799	1056.322	1281.524	0.645	19.319	15.799	***5.509***
2022-08-28 9:30	5686206	8.289	-124.226	15.773	1055.630	1281.470	0.645	18.473	15.773	***5.724***
2022-08-28 9:45	5687106	8.285	-124.037	15.774	1057.018	1283.121	0.645	16.899	15.774	***6.213***
2022-08-28 10:00	5688006	8.316	-125.761	15.786	1057.797	1283.708	0.646	35.051	15.786	***5.968***
2022-08-28 10:15	5688906	8.314	-125.630	15.784	1060.132	1286.619	0.647	22.251	15.784	***6.086***
2022-08-28 10:30	5689806	8.316	-125.718	15.738	1065.635	1294.673	0.651	22.046	15.738	6.602
2022-08-28 10:45	5690706	8.350	-127.597	15.663	1069.594	1301.732	0.655	19.429	15.663	6.793
2022-08-28 11:00	5691606	8.381	-129.349	15.696	1075.485	1307.912	0.658	22.159	15.696	6.891
2022-08-28 11:15	5692506	8.360	-128.133	15.708	1075.578	1307.652	0.658	19.653	15.708	7.026
2022-08-28 11:30	5693406	8.350	-127.609	15.730	1075.870	1307.340	0.658	20.833	15.730	7.156
2022-08-28 11:45	5694306	8.340	-127.041	15.751	1075.904	1306.744	0.658	20.993	15.751	7.161
2022-08-28 12:00	5695206	8.379	-129.244	15.790	1072.902	1301.911	0.655	39.915	15.790	7.221
2022-08-28 12:15	5696106	8.364	-128.398	15.803	1072.699	1301.296	0.655	21.198	15.803	7.436
2022-08-28 12:30	5697006	8.377	-129.149	15.774	1080.895	1312.122	0.661	21.562	15.774	7.201
2022-08-28 12:45	5697906	8.378	-129.237	15.844	1077.581	1305.967	0.657	22.213	15.844	7.565
2022-08-28 13:00	5698806	8.394	-130.126	15.899	1075.008	1301.207	0.655	21.985	15.899	7.648
2022-08-28 13:15	5699706	8.385	-129.638	15.947	1075.631	1300.495	0.655	19.515	15.947	7.978
2022-08-28 13:30	5700606	8.372	-128.956	16.020	1080.229	1303.851	0.656	16.718	16.020	8.019
2022-08-28 13:45	5701506	8.379	-129.375	16.095	1080.438	1301.867	0.656	14.376	16.095	8.238

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-28 14:00	5702406	8.419	-131.683	16.192	1077.915	1295.944	0.652	17.349	16.192	8.190
2022-08-28 14:15	5703306	8.425	-132.020	16.230	1080.925	1298.410	0.654	9.305	16.230	8.381
2022-08-28 14:30	5704206	8.432	-132.451	16.279	1090.343	1308.269	0.659	8.643	16.279	8.542
2022-08-28 14:45	5705106	8.426	-132.165	16.402	1096.346	1311.763	0.661	8.810	16.402	8.987
2022-08-28 15:00	5706006	8.446	-133.338	16.574	1105.733	1317.819	0.664	10.928	16.574	9.284
2022-08-28 15:15	5706906	8.439	-133.018	16.672	1109.100	1318.895	0.665	8.343	16.672	9.269
2022-08-28 15:30	5707806	8.441	-133.159	16.817	1112.483	1318.554	0.665	8.288	16.817	9.413
2022-08-28 15:45	5708706	8.436	-132.954	16.934	1112.592	1315.225	0.663	7.564	16.934	9.651
2022-08-28 16:00	5709606	8.488	-135.930	17.120	1112.834	1309.996	0.660	21.745	17.120	9.932
2022-08-28 16:15	5710506	8.462	-134.501	17.183	1112.443	1307.680	0.659	8.162	17.183	10.000
2022-08-28 16:30	5711406	8.459	-134.420	17.283	1115.564	1308.409	0.660	7.926	17.283	10.068
2022-08-28 16:45	5712306	8.467	-134.907	17.370	1118.677	1309.513	0.660	7.929	17.370	10.180
2022-08-28 17:00	5713206	8.484	-135.903	17.481	1119.682	1307.460	0.659	9.018	17.481	10.287
2022-08-28 17:15	5714106	8.475	-135.388	17.532	1120.155	1306.505	0.659	8.340	17.532	10.467
2022-08-28 17:30	5715006	8.480	-135.715	17.621	1124.726	1309.264	0.660	7.575	17.621	10.595
2022-08-28 17:45	5715906	8.482	-135.889	17.685	1128.622	1311.910	0.662	7.908	17.685	10.715
2022-08-28 18:00	5716806	8.507	-137.305	17.767	1128.568	1309.476	0.660	10.846	17.767	10.650
2022-08-28 18:15	5717706	8.491	-136.437	17.803	1125.102	1304.406	0.658	7.616	17.803	10.898
2022-08-28 18:30	5718606	8.479	-135.760	17.833	1124.922	1303.347	0.657	8.145	17.833	10.714
2022-08-28 18:45	5719506	8.472	-135.391	17.848	1122.595	1300.208	0.656	7.619	17.848	10.575
2022-08-28 19:00	5720406	8.483	-135.951	17.758	1108.839	1286.849	0.649	7.896	17.758	10.423
2022-08-28 19:15	5721306	8.483	-135.934	17.727	1109.990	1289.069	0.650	7.083	17.727	10.148
2022-08-28 19:30	5722206	8.474	-135.453	17.732	1109.198	1288.003	0.649	6.794	17.732	10.293
2022-08-28 19:45	5723106	8.451	-134.184	17.735	1106.636	1284.944	0.647	6.933	17.735	10.128
2022-08-28 20:00	5724006	8.468	-135.117	17.747	1101.635	1278.781	0.644	8.476	17.747	10.044
2022-08-28 20:15	5724906	8.441	-133.591	17.744	1101.109	1278.252	0.644	6.454	17.744	9.560
2022-08-28 20:30	5725806	8.441	-133.607	17.737	1103.223	1280.927	0.645	9.623	17.737	9.444
2022-08-28 20:45	5726707	8.422	-132.549	17.707	1105.040	1283.886	0.647	6.347	17.707	8.852
2022-08-28 21:00	5727607	8.391	-130.751	17.638	1092.069	1270.763	0.640	7.066	17.638	9.322
2022-08-28 21:15	5728507	8.405	-131.493	17.577	1092.185	1272.605	0.641	6.762	17.577	9.118
2022-08-28 21:30	5729407	8.368	-129.395	17.450	1082.137	1264.470	0.637	6.793	17.450	9.031
2022-08-28 21:45	5730307	8.370	-129.473	17.390	1085.273	1269.839	0.639	6.644	17.390	8.855
2022-08-28 22:00	5731207	8.410	-131.707	17.360	1069.670	1252.441	0.630	12.981	17.360	8.763
2022-08-28 22:15	5732107	8.366	-129.213	17.332	1083.473	1269.390	0.639	11.162	17.332	8.509
2022-08-28 22:30	5733007	8.355	-128.560	17.294	1086.458	1273.979	0.642	7.004	17.294	8.588
2022-08-28 22:45	5733907	8.352	-128.398	17.250	1084.307	1272.685	0.641	7.399	17.250	8.268
2022-08-28 23:00	5734807	8.368	-129.261	17.192	1058.805	1244.383	0.626	8.311	17.192	8.182
2022-08-28 23:15	5735707	8.364	-129.023	17.155	1062.056	1249.240	0.628	6.782	17.155	8.086
2022-08-28 23:30	5736607	8.351	-128.286	17.110	1067.728	1257.178	0.633	6.470	17.110	7.941
2022-08-28 23:45	5737507	8.340	-127.621	17.076	1067.445	1257.815	0.633	6.345	17.076	7.908
2022-08-29 0:00	5738407	8.345	-127.935	17.040	1043.215	1230.251	0.618	8.691	17.040	7.739
2022-08-29 0:15	5739307	8.315	-126.243	17.023	1048.202	1236.609	0.622	7.772	17.023	7.393
2022-08-29 0:30	5740207	8.294	-125.015	16.996	1052.034	1241.904	0.625	6.822	16.996	7.483
2022-08-29 0:45	5741107	8.303	-125.508	16.960	1053.362	1244.481	0.626	6.904	16.960	7.244

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-29 1:00	5742007	8.304	-125.587	16.921	1030.031	1217.985	0.612	8.784	16.921	7.145
2022-08-29 1:15	5742907	8.293	-124.967	16.896	1034.290	1223.711	0.615	7.643	16.896	6.988
2022-08-29 1:30	5743807	8.287	-124.567	16.865	1033.706	1223.859	0.615	9.500	16.865	7.259
2022-08-29 1:45	5744707	8.289	-124.707	16.826	1036.182	1227.887	0.617	7.599	16.826	7.042
2022-08-29 2:00	5745607	8.304	-125.496	16.792	1022.717	1212.851	0.609	9.244	16.792	6.971
2022-08-29 2:15	5746507	8.281	-124.204	16.770	1023.909	1214.881	0.610	7.773	16.770	6.705
2022-08-29 2:30	5747407	8.260	-123.038	16.735	1027.881	1220.568	0.613	6.806	16.735	6.607
2022-08-29 2:45	5748307	8.239	-121.863	16.685	1028.658	1222.882	0.614	7.442	16.685	6.611
2022-08-29 3:00	5749207	8.247	-122.280	16.631	1013.321	1206.117	0.606	7.915	16.631	6.625
2022-08-29 3:15	5750107	8.265	-123.229	16.603	1016.312	1210.438	0.608	6.872	16.603	***6.381***
2022-08-29 3:30	5751007	8.279	-124.011	16.583	1019.903	1215.289	0.610	7.245	16.583	6.572
2022-08-29 3:45	5751907	8.276	-123.842	16.568	1023.414	1219.870	0.613	6.725	16.568	6.854
2022-08-29 4:00	5752807	8.248	-122.283	16.540	1012.428	1207.559	0.606	9.619	16.540	6.697
2022-08-29 4:15	5753707	8.243	-121.980	16.522	1015.778	1212.032	0.609	7.713	16.522	***6.248***
2022-08-29 4:30	5754607	8.245	-122.085	16.510	1020.657	1218.195	0.612	7.595	16.510	***6.242***
2022-08-29 4:45	5755507	8.257	-122.736	16.498	1024.837	1223.511	0.615	7.505	16.498	***6.486***
2022-08-29 5:00	5756407	8.181	-118.494	16.470	1011.137	1207.933	0.606	8.276	16.470	***6.378***
2022-08-29 5:15	5757307	8.243	-121.980	16.448	1015.245	1213.467	0.609	7.885	16.448	***6.163***
2022-08-29 5:30	5758207	8.202	-119.638	16.427	1018.089	1217.444	0.611	7.808	16.427	***6.160***
2022-08-29 5:45	5759107	8.201	-119.586	16.363	1015.229	1215.807	0.611	7.059	16.363	***5.723***
2022-08-29 6:00	5760007	8.269	-123.360	16.355	1010.986	1210.922	0.608	10.970	16.355	***5.745***
2022-08-29 6:15	5760907	8.287	-124.359	16.341	1011.956	1212.484	0.609	8.144	16.341	***5.964***
2022-08-29 6:30	5761807	8.281	-124.023	16.319	1014.612	1216.289	0.611	8.358	16.319	***6.066***
2022-08-29 6:45	5762707	8.264	-123.065	16.305	1016.031	1218.382	0.612	7.762	16.305	***6.397***
2022-08-29 7:00	5763607	8.286	-124.304	16.299	1010.346	1211.708	0.608	8.656	16.299	6.534
2022-08-29 7:15	5764507	8.266	-123.155	16.283	1012.230	1214.412	0.610	7.737	16.283	***6.430***
2022-08-29 7:30	5765407	8.291	-124.569	16.263	1012.467	1215.255	0.610	7.296	16.263	***6.079***
2022-08-29 7:45	5766307	8.265	-123.091	16.246	1013.251	1216.680	0.611	7.297	16.246	***6.226***
2022-08-29 8:00	5767207	8.316	-125.961	16.249	1014.296	1217.856	0.612	9.628	16.249	6.547
2022-08-29 8:15	5768107	8.293	-124.640	16.236	1013.695	1217.501	0.611	8.009	16.236	***6.246***
2022-08-29 8:30	5769007	8.304	-125.248	16.235	1014.439	1218.413	0.612	7.417	16.235	***6.211***
2022-08-29 8:45	5769907	8.286	-124.254	16.243	1016.286	1220.405	0.613	7.879	16.243	***6.136***
2022-08-29 9:00	5770807	8.303	-125.213	16.249	1016.328	1220.286	0.613	7.418	16.249	***6.120***
2022-08-29 9:15	5771707	8.317	-125.980	16.250	1015.675	1219.474	0.612	7.235	16.250	***6.426***
2022-08-29 9:30	5772607	8.356	-128.152	16.240	1016.518	1220.779	0.613	7.119	16.240	6.516
2022-08-29 9:45	5773507	8.374	-129.175	16.249	1018.432	1222.826	0.614	6.790	16.249	6.967
2022-08-29 10:00	5774407	8.387	-129.905	16.272	1020.368	1224.492	0.615	11.575	16.272	7.043
2022-08-29 10:15	5775307	8.388	-129.995	16.281	1023.652	1228.189	0.617	7.187	16.281	7.034
2022-08-29 10:30	5776207	8.384	-129.764	16.283	1025.777	1230.679	0.618	7.551	16.283	7.322
2022-08-29 10:45	5777107	8.336	-127.101	16.282	1026.339	1231.389	0.619	7.254	16.282	7.494
2022-08-29 11:00	5778007	8.369	-128.908	16.302	1028.317	1233.190	0.620	7.688	16.302	7.651
2022-08-29 11:15	5778907	8.416	-131.514	16.289	1030.103	1235.710	0.621	7.274	16.289	7.701
2022-08-29 11:30	5779807	8.413	-131.359	16.272	1031.893	1238.328	0.622	7.594	16.272	7.505
2022-08-29 11:45	5780707	8.386	-129.859	16.293	1035.614	1242.209	0.624	7.947	16.293	7.547

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-29 12:00	5781607	8.453	-133.607	16.293	1042.155	1250.037	0.628	9.109	16.293	7.883
2022-08-29 12:15	5782507	8.438	-132.799	16.311	1043.932	1251.664	0.629	7.306	16.311	8.327
2022-08-29 12:30	5783407	8.440	-132.928	16.356	1043.511	1249.870	0.628	9.740	16.356	8.603
2022-08-29 12:45	5784307	8.447	-133.317	16.399	1043.427	1248.538	0.628	6.708	16.399	8.614
2022-08-29 13:00	5785207	8.463	-134.237	16.468	1042.709	1245.703	0.626	8.976	16.468	8.691
2022-08-29 13:15	5786107	8.439	-132.933	16.525	1042.297	1243.604	0.625	6.886	16.525	8.802
2022-08-29 13:30	5787007	8.427	-132.294	16.608	1042.773	1241.813	0.624	7.191	16.608	8.807
2022-08-29 13:45	5787907	8.435	-132.790	16.706	1042.227	1238.402	0.623	7.751	16.706	9.011
2022-08-29 14:00	5788807	8.462	-134.373	16.822	1042.138	1235.060	0.621	10.962	16.822	9.083
2022-08-29 14:15	5789707	8.456	-134.065	16.899	1042.838	1233.728	0.620	7.510	16.899	9.386
2022-08-29 14:30	5790607	8.449	-133.715	16.956	1041.920	1231.065	0.619	7.008	16.956	9.343
2022-08-29 14:45	5791507	8.467	-134.704	16.993	1040.224	1228.020	0.617	7.789	16.993	9.297
2022-08-29 15:00	5792407	8.479	-135.427	17.055	1039.714	1225.715	0.616	9.816	17.055	9.427
2022-08-29 15:15	5793307	8.463	-134.504	17.085	1039.521	1224.655	0.616	7.491	17.085	9.375
2022-08-29 15:30	5794207	8.460	-134.366	17.111	1040.698	1225.340	0.616	6.633	17.111	9.391
2022-08-29 15:45	5795107	8.451	-133.872	17.129	1042.390	1226.824	0.617	6.102	17.129	9.308
2022-08-29 16:00	5796007	8.444	-133.500	17.160	1042.068	1225.586	0.616	7.692	17.160	9.132
2022-08-29 16:15	5796907	8.434	-132.940	17.185	1042.089	1224.932	0.616	6.336	17.185	9.188
2022-08-29 16:30	5797807	8.440	-133.312	17.210	1043.395	1225.785	0.616	6.137	17.210	9.114
2022-08-29 16:45	5798707	8.433	-132.942	17.238	1044.374	1226.159	0.616	6.077	17.238	9.161
2022-08-29 17:00	5799607	8.433	-132.966	17.284	1044.859	1225.475	0.616	7.099	17.284	9.037
2022-08-29 17:15	5800507	8.449	-133.862	17.323	1044.344	1223.789	0.615	6.265	17.323	9.483
2022-08-29 17:30	5801407	8.464	-134.726	17.359	1044.728	1223.260	0.615	6.800	17.359	9.728
2022-08-29 17:45	5802307	8.476	-135.388	17.382	1045.693	1223.742	0.615	10.615	17.382	9.856
2022-08-29 18:00	5803207	8.506	-137.091	17.395	1049.365	1227.703	0.617	8.179	17.395	9.708
2022-08-29 18:15	5804107	8.486	-135.941	17.399	1044.981	1222.457	0.615	7.312	17.399	10.053
2022-08-29 18:30	5805007	8.479	-135.584	17.444	1045.399	1221.711	0.614	6.855	17.444	10.270
2022-08-29 18:45	5805907	8.486	-135.994	17.470	1045.642	1221.285	0.614	6.752	17.470	10.183
2022-08-29 19:00	5806807	8.481	-135.703	17.496	1045.691	1220.637	0.614	7.625	17.496	9.915
2022-08-29 19:15	5807707	8.468	-135.040	17.519	1044.721	1218.877	0.613	6.169	17.519	10.009
2022-08-29 19:30	5808607	8.457	-134.394	17.539	1045.603	1219.368	0.613	5.962	17.539	9.851
2022-08-29 19:45	5809507	8.446	-133.805	17.561	1047.313	1220.771	0.614	5.552	17.561	9.859
2022-08-29 20:00	5810407	8.455	-134.325	17.579	1047.476	1220.479	0.614	7.638	17.579	9.667
2022-08-29 20:15	5811307	8.440	-133.462	17.586	1046.396	1219.021	0.613	6.403	17.586	9.415
2022-08-29 20:30	5812207	8.424	-132.575	17.591	1047.897	1220.636	0.614	5.888	17.591	9.497
2022-08-29 20:45	5813107	8.404	-131.476	17.590	1049.209	1222.190	0.614	6.032	17.590	9.418
2022-08-29 21:00	5814007	8.393	-130.820	17.591	1047.937	1220.687	0.614	7.028	17.591	9.330
2022-08-29 21:15	5814907	8.405	-131.526	17.587	1047.036	1219.745	0.613	6.367	17.587	8.904
2022-08-29 21:30	5815807	8.405	-131.526	17.581	1047.800	1220.802	0.614	6.182	17.581	8.845
2022-08-29 21:45	5816707	8.405	-131.488	17.575	1048.815	1222.136	0.614	5.696	17.575	8.785
2022-08-29 22:00	5817607	8.395	-130.930	17.562	1045.722	1218.895	0.613	7.252	17.562	8.382
2022-08-29 22:15	5818507	8.378	-130.003	17.544	1045.027	1218.551	0.613	6.295	17.544	8.350
2022-08-29 22:30	5819407	8.363	-129.120	17.526	1045.795	1219.936	0.613	5.091	17.526	8.233
2022-08-29 22:45	5820307	8.346	-128.174	17.513	1046.060	1220.608	0.614	4.862	17.513	8.068

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-29 23:00	5821207	8.358	-128.825	17.500	1039.703	1213.553	0.610	7.943	17.500	7.897
2022-08-29 23:15	5822107	8.372	-129.614	17.484	1042.340	1217.056	0.612	5.698	17.484	7.885
2022-08-29 23:30	5823007	8.387	-130.429	17.461	1043.670	1219.239	0.613	5.537	17.461	7.520
2022-08-29 23:45	5823907	8.369	-129.423	17.424	1043.449	1219.972	0.613	5.298	17.424	7.596
2022-08-30 0:00	5824807	8.372	-129.602	17.394	1039.174	1215.792	0.611	7.954	17.394	7.280
2022-08-30 0:15	5825707	8.325	-126.925	17.344	1038.298	1216.134	0.611	5.397	17.344	7.021
2022-08-30 0:30	5826607	8.316	-126.410	17.303	1037.862	1216.727	0.611	5.439	17.303	6.931
2022-08-30 0:45	5827507	8.354	-128.505	17.263	1037.770	1217.729	0.612	5.616	17.263	7.167
2022-08-30 1:00	5828407	8.343	-127.871	17.227	1028.023	1207.270	0.606	8.187	17.227	7.082
2022-08-30 1:15	5829307	8.311	-126.102	17.190	1028.428	1208.742	0.607	5.790	17.190	6.727
2022-08-30 1:30	5830207	8.338	-127.573	17.170	1030.778	1212.044	0.609	5.230	17.170	6.505
2022-08-30 1:45	5831107	8.333	-127.275	17.146	1031.348	1213.369	0.610	5.531	17.146	6.521
2022-08-30 2:00	5832007	8.342	-127.800	17.102	1022.440	1204.080	0.605	12.511	17.102	***6.488***
2022-08-30 2:15	5832907	8.303	-125.556	17.070	1021.224	1203.500	0.604	6.654	17.070	6.730
2022-08-30 2:30	5833807	8.290	-124.846	17.042	1023.608	1207.095	0.606	6.165	17.042	6.590
2022-08-30 2:45	5834707	8.281	-124.309	17.016	1023.734	1207.938	0.607	6.227	17.016	***6.391***
2022-08-30 3:00	5835607	8.283	-124.416	16.984	1006.890	1188.922	0.597	7.508	16.984	***6.231***
2022-08-30 3:15	5836507	8.273	-123.849	16.934	1008.483	1192.156	0.598	6.562	16.934	6.586
2022-08-30 3:30	5837407	8.273	-123.844	16.898	1011.342	1196.493	0.601	6.405	16.898	***6.439***
2022-08-30 3:45	5838307	8.260	-123.098	16.865	1011.300	1197.338	0.601	6.011	16.865	***6.280***
2022-08-30 4:00	5839207	8.271	-123.696	16.813	992.075	1175.967	0.590	32.767	16.813	***6.038***
2022-08-30 4:15	5840107	8.228	-121.231	16.769	994.333	1179.812	0.592	6.631	16.769	***5.814***
2022-08-30 4:30	5841007	8.216	-120.587	16.736	995.999	1182.689	0.593	6.236	16.736	***5.606***
2022-08-30 4:45	5841907	8.225	-121.078	16.709	994.975	1182.195	0.593	6.411	16.709	***5.595***
2022-08-30 5:00	5842807	8.224	-120.981	16.667	976.583	1161.442	0.582	7.654	16.667	***5.403***
2022-08-30 5:15	5843707	8.210	-120.187	16.590	980.614	1168.265	0.586	6.851	16.590	***5.273***
2022-08-30 5:30	5844607	8.208	-120.060	16.524	981.278	1170.824	0.587	6.534	16.524	***4.804***
2022-08-30 5:45	5845507	8.187	-118.842	16.448	979.625	1170.876	0.587	7.562	16.448	***4.995***
2022-08-30 6:00	5846407	8.204	-119.722	16.363	950.216	1137.951	0.570	10.643	16.363	***4.733***
2022-08-30 6:15	5847307	8.147	-116.518	16.305	954.256	1144.301	0.573	7.108	16.305	***4.870***
2022-08-30 6:30	5848207	8.137	-115.952	16.267	952.345	1142.985	0.572	6.944	16.267	***5.109***
2022-08-30 6:45	5849107	8.135	-115.864	16.229	948.126	1138.927	0.570	7.372	16.229	***4.988***
2022-08-30 7:00	5850007	8.157	-117.042	16.126	916.085	1103.055	0.551	8.811	16.126	***4.727***
2022-08-30 7:15	5850907	8.124	-115.139	16.048	927.897	1119.278	0.560	9.078	16.048	***4.499***
2022-08-30 7:30	5851807	8.114	-114.574	15.989	929.176	1122.330	0.561	9.657	15.989	***4.402***
2022-08-30 7:45	5852707	8.102	-113.873	15.939	929.064	1123.495	0.562	6.689	15.939	***4.244***
2022-08-30 8:00	5853607	8.111	-114.386	15.899	901.441	1091.102	0.545	9.159	15.899	***4.007***
2022-08-30 8:15	5854507	8.090	-113.208	15.875	905.244	1096.327	0.548	7.895	15.875	***4.014***
2022-08-30 8:30	5855407	8.090	-113.187	15.851	907.291	1099.401	0.549	7.642	15.851	***3.601***
2022-08-30 8:45	5856307	8.078	-112.486	15.827	909.251	1102.387	0.551	6.538	15.827	***3.673***
2022-08-30 9:00	5857207	8.093	-113.361	15.818	895.169	1085.559	0.542	13.799	15.818	***3.861***
2022-08-30 9:15	5858107	8.068	-111.945	15.813	899.187	1090.543	0.545	8.653	15.813	***4.217***
2022-08-30 9:30	5859007	8.053	-111.113	15.825	905.551	1097.960	0.549	8.541	15.825	***3.989***
2022-08-30 9:45	5859907	8.060	-111.511	15.841	910.974	1104.129	0.552	8.153	15.841	***4.160***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-30 10:00	5860807	8.153	-116.701	15.856	912.894	1106.073	0.553	9.234	15.856	***5.171***
2022-08-30 10:15	5861707	8.158	-116.978	15.870	919.409	1113.605	0.557	8.069	15.870	***5.130***
2022-08-30 10:30	5862607	8.144	-116.229	15.876	925.647	1121.007	0.561	8.017	15.876	***5.596***
2022-08-30 10:45	5863507	8.174	-117.855	15.883	931.118	1127.457	0.564	7.639	15.883	***5.761***
2022-08-30 11:00	5864407	8.221	-120.525	15.895	938.112	1135.596	0.568	7.583	15.895	***5.796***
2022-08-30 11:15	5865307	8.264	-122.912	15.898	946.005	1145.069	0.573	7.083	15.898	***5.985***
2022-08-30 11:30	5866207	8.288	-124.276	15.947	953.519	1152.862	0.577	7.189	15.947	***6.124***
2022-08-30 11:45	5867107	8.301	-124.998	16.026	963.749	1163.119	0.583	6.478	16.026	6.953
2022-08-30 12:00	5868007	8.390	-130.036	16.128	978.436	1178.069	0.591	8.343	16.128	7.630
2022-08-30 12:15	5868907	8.398	-130.475	16.170	980.823	1179.786	0.592	6.507	16.170	7.958
2022-08-30 12:30	5869807	8.415	-131.476	16.220	980.821	1178.456	0.591	6.189	16.220	8.105
2022-08-30 12:45	5870707	8.412	-131.328	16.260	979.468	1175.728	0.589	6.400	16.260	8.134
2022-08-30 13:00	5871607	8.426	-132.113	16.370	977.025	1169.865	0.586	8.416	16.370	8.251
2022-08-30 13:15	5872507	8.402	-130.823	16.457	977.378	1167.948	0.586	7.021	16.457	8.354
2022-08-30 13:30	5873407	8.431	-132.501	16.592	977.955	1165.043	0.584	8.008	16.592	8.532
2022-08-30 13:45	5874307	8.432	-132.620	16.694	978.416	1162.900	0.583	6.770	16.694	8.590
2022-08-30 14:00	5875207	8.436	-132.928	16.912	984.568	1164.461	0.584	7.682	16.912	8.707
2022-08-30 14:15	5876107	8.434	-132.916	17.072	987.736	1163.993	0.584	6.216	17.072	8.919
2022-08-30 14:30	5877007	8.455	-134.137	17.231	994.476	1167.755	0.586	6.105	17.231	9.098
2022-08-30 14:45	5877907	8.473	-135.214	17.356	1000.385	1171.422	0.588	6.683	17.356	9.256
2022-08-30 15:00	5878807	8.485	-135.982	17.526	1004.593	1171.887	0.588	7.698	17.526	9.421
2022-08-30 15:15	5879707	8.484	-135.963	17.628	1006.437	1171.366	0.588	5.923	17.628	9.653
2022-08-30 15:30	5880607	8.491	-136.449	17.776	1008.229	1169.607	0.587	8.340	17.776	9.777
2022-08-30 15:45	5881507	8.497	-136.840	17.970	1011.725	1168.648	0.587	6.629	17.970	10.056
2022-08-30 16:00	5882407	8.510	-137.696	18.206	1014.692	1165.994	0.585	11.585	18.206	10.122
2022-08-30 16:15	5883307	8.502	-137.291	18.267	1015.580	1165.466	0.585	6.074	18.267	10.215
2022-08-30 16:30	5884207	8.506	-137.532	18.364	1017.717	1165.420	0.585	5.754	18.364	10.301
2022-08-30 16:45	5885107	8.507	-137.639	18.442	1020.885	1167.074	0.586	6.137	18.442	10.287
2022-08-30 17:00	5886007	8.517	-138.223	18.550	1024.308	1168.221	0.587	7.883	18.550	10.370
2022-08-30 17:15	5886907	8.519	-138.392	18.607	1025.468	1168.092	0.586	8.972	18.607	10.399
2022-08-30 17:30	5887807	8.527	-138.898	18.707	1026.476	1166.709	0.586	6.204	18.707	10.599
2022-08-30 17:45	5888707	8.523	-138.679	18.793	1025.696	1163.659	0.584	6.221	18.793	10.633
2022-08-30 18:00	5889607	8.527	-138.972	18.847	1027.104	1163.884	0.584	8.853	18.847	10.576
2022-08-30 18:15	5890507	8.519	-138.481	18.865	1027.086	1163.409	0.584	5.907	18.865	10.542
2022-08-30 18:30	5891407	8.520	-138.555	18.889	1026.323	1161.957	0.583	5.843	18.889	10.524
2022-08-30 18:45	5892307	8.490	-136.898	18.871	1024.470	1160.304	0.583	6.744	18.871	10.188
2022-08-30 19:00	5893207	8.456	-134.768	18.485	1119.394	1278.484	0.644	12.489	18.485	9.698
2022-08-30 19:15	5894107	8.344	-128.136	17.700	1223.468	1421.701	0.720	20.607	17.700	8.148
2022-08-30 19:30	5895007	8.251	-122.757	17.286	1207.516	1416.161	0.716	12.301	17.286	7.412
2022-08-30 19:45	5895907	8.196	-119.572	17.080	1226.896	1445.573	0.732	8.326	17.080	6.943
2022-08-30 20:00	5896807	8.218	-120.797	17.029	1254.427	1479.723	0.750	17.639	17.029	6.858
2022-08-30 20:15	5897707	8.214	-120.583	17.011	1286.575	1518.248	0.770	6.900	17.011	7.003
2022-08-30 20:30	5898607	8.233	-121.725	17.154	1292.585	1520.449	0.772	8.726	17.154	7.063
2022-08-30 20:45	5899507	8.274	-124.083	17.370	1294.484	1515.311	0.769	11.881	17.370	7.215

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-30 21:00	5900407	8.315	-126.400	17.462	1283.160	1498.967	0.760	9.932	17.462	7.477
2022-08-30 21:15	5901307	8.299	-125.501	17.420	1271.219	1486.415	0.754	9.875	17.420	7.472
2022-08-30 21:30	5902207	8.298	-125.396	17.309	1260.578	1477.636	0.749	10.771	17.309	7.451
2022-08-30 21:45	5903107	8.293	-125.048	17.174	1249.464	1469.047	0.744	8.611	17.174	7.450
2022-08-30 22:00	5904007	8.310	-125.921	17.002	1240.557	1464.248	0.742	20.074	17.002	7.497
2022-08-30 22:15	5904907	8.282	-124.328	16.860	1236.181	1463.767	0.741	14.031	16.860	7.457
2022-08-30 22:30	5905807	8.278	-124.047	16.720	1231.529	1462.873	0.741	8.858	16.720	7.481
2022-08-30 22:45	5906707	8.270	-123.544	16.601	1226.952	1461.399	0.740	9.119	16.601	7.460
2022-08-30 23:00	5907607	8.286	-124.393	16.488	1222.552	1459.900	0.739	10.647	16.488	7.413
2022-08-30 23:15	5908507	8.266	-123.243	16.420	1219.585	1458.629	0.738	10.418	16.420	7.397
2022-08-30 23:30	5909407	8.262	-122.955	16.355	1216.240	1456.785	0.737	11.109	16.355	7.306
2022-08-30 23:45	5910307	8.253	-122.471	16.291	1214.557	1456.906	0.737	11.545	16.291	7.231
2022-08-31 0:00	5911207	8.284	-124.149	16.214	1213.810	1458.567	0.738	17.436	16.214	7.184
2022-08-31 0:15	5912107	8.258	-122.702	16.164	1211.030	1456.919	0.737	13.273	16.164	7.185
2022-08-31 0:30	5913007	8.254	-122.433	16.103	1208.822	1456.309	0.737	13.777	16.103	7.134
2022-08-31 0:45	5913907	8.260	-122.743	16.038	1204.859	1453.681	0.736	14.074	16.038	7.151
2022-08-31 1:00	5914807	8.282	-123.951	15.964	1206.193	1457.776	0.738	14.506	15.964	7.121
2022-08-31 1:15	5915707	8.261	-122.738	15.906	1202.924	1455.794	0.737	13.769	15.906	7.125
2022-08-31 1:30	5916607	8.263	-122.795	15.840	1200.254	1454.792	0.736	13.495	15.840	7.102
2022-08-31 1:45	5917507	8.263	-122.802	15.768	1196.613	1452.781	0.735	13.002	15.768	7.066
2022-08-31 2:00	5918407	8.286	-124.021	15.694	1194.586	1452.813	0.735	15.731	15.694	7.041
2022-08-31 2:15	5919307	8.265	-122.828	15.625	1192.528	1452.646	0.735	13.230	15.625	7.001
2022-08-31 2:30	5920207	8.268	-122.936	15.521	1187.838	1450.445	0.733	12.531	15.521	7.033
2022-08-31 2:45	5921107	8.271	-123.084	15.428	1185.278	1450.458	0.733	12.068	15.428	7.041
2022-08-31 3:00	5922007	8.293	-124.257	15.336	1182.854	1450.609	0.733	13.021	15.336	7.036
2022-08-31 3:15	5922907	8.273	-123.141	15.260	1180.789	1450.662	0.733	11.010	15.260	7.038
2022-08-31 3:30	5923807	8.274	-123.131	15.172	1176.957	1448.929	0.732	10.986	15.172	7.039
2022-08-31 3:45	5924707	8.274	-123.081	15.089	1169.218	1442.220	0.729	18.957	15.089	7.003
2022-08-31 4:00	5925607	8.301	-124.569	14.991	1167.493	1443.451	0.729	23.931	14.991	7.032
2022-08-31 4:15	5926507	8.272	-122.900	14.919	1162.692	1439.949	0.727	11.847	14.919	6.977
2022-08-31 4:30	5927407	8.275	-123.055	14.824	1160.012	1439.883	0.727	11.060	14.824	7.023
2022-08-31 4:45	5928307	8.278	-123.193	14.722	1159.508	1442.736	0.729	11.829	14.722	7.056
2022-08-31 5:00	5929207	8.309	-124.824	14.609	1160.108	1447.378	0.731	20.216	14.609	7.031
2022-08-31 5:15	5930107	8.283	-123.384	14.531	1158.237	1447.733	0.731	11.273	14.531	7.062
2022-08-31 5:30	5931007	8.285	-123.467	14.444	1155.137	1446.843	0.731	10.509	14.444	6.993
2022-08-31 5:45	5931907	8.282	-123.267	14.365	1150.976	1444.357	0.729	9.283	14.365	7.013
2022-08-31 6:00	5932807	8.308	-124.645	14.262	1147.399	1443.443	0.729	21.146	14.262	7.029
2022-08-31 6:15	5933707	8.286	-123.372	14.166	1145.343	1444.174	0.729	8.695	14.166	7.016
2022-08-31 6:30	5934607	8.288	-123.429	14.052	1139.871	1441.262	0.727	8.904	14.052	7.102
2022-08-31 6:45	5935507	8.288	-123.434	13.980	1137.421	1440.645	0.727	8.209	13.980	7.085
2022-08-31 7:00	5936407	8.311	-124.617	13.870	1132.743	1438.573	0.726	8.840	13.870	7.016
2022-08-31 7:15	5937307	8.268	-122.223	13.823	1133.555	1441.221	0.727	8.162	13.823	7.030
2022-08-31 7:30	5938207	8.263	-121.918	13.745	1128.587	1437.640	0.725	7.924	13.745	7.008
2022-08-31 7:45	5939107	8.248	-121.045	13.680	1125.464	1435.940	0.724	7.408	13.680	6.928

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-31 8:00	5940007	8.305	-124.161	13.600	1118.319	1429.613	0.721	8.986	13.600	6.902
2022-08-31 8:15	5940907	8.242	-120.704	13.555	1116.668	1429.059	0.720	11.831	13.555	6.730
2022-08-31 8:30	5941807	8.271	-122.283	13.489	1116.519	1431.180	0.721	7.064	13.489	6.768
2022-08-31 8:45	5942707	8.268	-122.056	13.435	1115.056	1431.211	0.721	8.013	13.435	6.944
2022-08-31 9:00	5943607	8.290	-123.243	13.388	1112.705	1429.840	0.721	7.095	13.388	7.026
2022-08-31 9:15	5944507	8.269	-122.116	13.373	1112.800	1430.479	0.721	6.674	13.373	7.116
2022-08-31 9:30	5945407	8.275	-122.426	13.360	1112.037	1429.954	0.721	6.154	13.360	7.072
2022-08-31 9:45	5946307	8.276	-122.461	13.354	1111.622	1429.642	0.720	6.282	13.354	7.070
2022-08-31 10:00	5947207	8.314	-124.569	13.350	1109.582	1427.150	0.719	12.796	13.350	7.132
2022-08-31 10:15	5948107	8.288	-123.167	13.355	1110.111	1427.657	0.719	5.760	13.355	7.139
2022-08-31 10:30	5949007	8.279	-122.626	13.366	1110.578	1427.862	0.719	5.514	13.366	7.100
2022-08-31 10:45	5949907	8.275	-122.452	13.384	1111.045	1427.830	0.719	5.293	13.384	7.128
2022-08-31 11:00	5950807	8.291	-123.346	13.421	1112.490	1428.380	0.720	6.451	13.421	7.144
2022-08-31 11:15	5951707	8.275	-122.488	13.456	1112.796	1427.556	0.719	5.247	13.456	7.263
2022-08-31 11:30	5952607	8.262	-121.796	13.525	1115.441	1428.539	0.720	5.086	13.525	7.295
2022-08-31 11:45	5953507	8.267	-122.097	13.603	1118.535	1429.764	0.721	4.857	13.603	7.316
2022-08-31 12:00	5954407	8.305	-124.216	13.704	1126.013	1435.803	0.724	11.242	13.704	7.425
2022-08-31 12:15	5955307	8.258	-121.660	13.758	1123.154	1430.255	0.721	5.043	13.758	7.654
2022-08-31 12:30	5956207	8.250	-121.257	13.831	1123.173	1427.736	0.720	4.788	13.831	7.855
2022-08-31 12:45	5957107	8.262	-121.927	13.895	1131.907	1436.613	0.725	4.918	13.895	7.960
2022-08-31 13:00	5958007	8.285	-123.267	13.983	1138.645	1442.084	0.728	6.485	13.983	7.948
2022-08-31 13:15	5958907	8.285	-123.253	14.034	1138.965	1440.712	0.727	4.770	14.034	8.114
2022-08-31 13:30	5959807	8.275	-122.762	14.102	1140.933	1440.833	0.727	14.489	14.102	8.228
2022-08-31 13:45	5960707	8.263	-122.130	14.161	1143.174	1441.617	0.728	7.388	14.161	8.146
2022-08-31 14:00	5961607	8.327	-125.682	14.285	1148.231	1443.702	0.729	6.692	14.285	8.265
2022-08-31 14:15	5962507	8.316	-125.141	14.402	1150.573	1442.581	0.728	4.314	14.402	8.427
2022-08-31 14:30	5963407	8.294	-124.023	14.603	1158.170	1445.141	0.730	4.268	14.603	8.541
2022-08-31 14:45	5964307	8.306	-124.769	14.820	1167.009	1448.679	0.732	4.046	14.820	8.493
2022-08-31 15:00	5965207	8.337	-126.610	15.149	1176.036	1448.586	0.732	5.319	15.149	8.505
2022-08-31 15:15	5966107	8.330	-126.300	15.313	1179.381	1447.131	0.732	4.793	15.313	8.840
2022-08-31 15:30	5967007	8.330	-126.429	15.591	1186.164	1446.047	0.731	5.140	15.591	9.006
2022-08-31 15:45	5967907	8.341	-127.182	15.902	1192.756	1443.617	0.730	5.466	15.902	9.099
2022-08-31 16:00	5968807	8.383	-129.702	16.275	1200.999	1441.178	0.729	6.709	16.275	9.043
2022-08-31 16:15	5969707	8.344	-127.592	16.419	1203.226	1439.085	0.728	4.888	16.419	8.979
2022-08-31 16:30	5970607	8.347	-127.871	16.633	1208.655	1438.541	0.728	5.433	16.633	9.035
2022-08-31 16:45	5971507	8.370	-129.192	16.808	1212.758	1437.715	0.728	5.666	16.808	8.729
2022-08-31 17:00	5972407	8.390	-130.355	16.929	1214.919	1436.324	0.727	5.174	16.929	8.787
2022-08-31 17:15	5973307	8.354	-128.355	16.958	1215.745	1436.383	0.727	4.585	16.958	8.912
2022-08-31 17:30	5974207	8.375	-129.566	16.956	1220.846	1442.472	0.730	4.534	16.956	8.817
2022-08-31 17:45	5975107	8.388	-130.303	16.987	1220.223	1440.716	0.729	4.546	16.987	8.998
2022-08-31 18:00	5976007	8.425	-132.375	16.993	1222.384	1443.064	0.731	7.278	16.993	8.955
2022-08-31 18:15	5976907	8.411	-131.583	17.044	1224.130	1443.496	0.731	4.494	17.044	9.079
2022-08-31 18:30	5977807	8.426	-132.501	17.138	1224.579	1440.959	0.730	4.971	17.138	9.107
2022-08-31 18:45	5978707	8.434	-132.995	17.266	1224.674	1436.936	0.727	5.586	17.266	9.005

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-08-31 19:00	5979607	8.454	-134.175	17.351	1231.646	1442.362	0.730	6.641	17.351	8.876
2022-08-31 19:15	5980507	8.452	-134.053	17.387	1234.981	1445.103	0.732	7.428	17.387	8.765
2022-08-31 19:30	5981407	8.453	-134.139	17.411	1241.385	1451.823	0.735	9.304	17.411	8.643
2022-08-31 19:45	5982307	8.453	-134.113	17.437	1245.387	1455.672	0.737	10.644	17.437	8.525
2022-08-31 20:00	5983207	8.478	-135.524	17.468	1251.974	1462.345	0.741	15.439	17.468	8.281
2022-08-31 20:15	5984107	8.453	-134.177	17.481	1255.387	1465.926	0.743	14.879	17.481	8.241
2022-08-31 20:30	5985007	8.452	-134.079	17.496	1259.055	1469.709	0.745	15.841	17.496	8.148
2022-08-31 20:45	5985907	8.444	-133.684	17.508	1258.831	1469.063	0.745	17.039	17.508	8.014
2022-08-31 21:00	5986807	8.454	-134.203	17.503	1259.960	1470.527	0.745	19.043	17.503	7.872
2022-08-31 21:15	5987707	8.438	-133.324	17.495	1262.912	1474.232	0.747	19.130	17.495	7.784
2022-08-31 21:30	5988607	8.428	-132.747	17.486	1257.800	1468.558	0.744	19.676	17.486	7.685
2022-08-31 21:45	5989507	8.416	-132.060	17.473	1253.214	1463.625	0.742	19.355	17.473	7.525
2022-08-31 22:00	5990407	8.429	-132.790	17.460	1258.812	1470.585	0.745	22.074	17.460	7.432
2022-08-31 22:15	5991307	8.410	-131.750	17.459	1259.390	1471.301	0.746	20.895	17.459	7.370
2022-08-31 22:30	5992207	8.399	-131.099	17.444	1254.085	1465.605	0.743	21.076	17.444	7.322
2022-08-31 22:45	5993107	8.394	-130.806	17.428	1252.261	1463.999	0.742	21.096	17.428	7.240
2022-08-31 23:00	5994007	8.404	-131.378	17.405	1256.110	1469.246	0.745	23.551	17.405	7.162
2022-08-31 23:15	5994907	8.385	-130.334	17.401	1258.763	1472.487	0.746	33.377	17.401	7.102
2022-08-31 23:30	5995807	8.382	-130.115	17.393	1258.883	1472.888	0.747	22.361	17.393	7.033
2022-08-31 23:45	5996707	8.375	-129.766	17.387	1260.146	1474.575	0.747	22.328	17.387	6.956
2022-09-01 0:00	5997607	8.389	-130.534	17.371	1263.316	1478.787	0.750	138.438	17.371	6.848
2022-09-01 0:15	5998507	8.367	-129.280	17.362	1258.828	1473.845	0.747	22.244	17.362	6.770
2022-09-01 0:30	5999407	8.355	-128.601	17.321	1251.153	1466.212	0.743	21.330	17.321	6.709
2022-09-01 0:45	6000307	8.354	-128.534	17.278	1249.751	1465.954	0.743	20.540	17.278	6.692
2022-09-01 1:00	6001207	8.370	-129.435	17.267	1255.931	1473.574	0.747	23.511	17.267	6.679
2022-09-01 1:15	6002107	8.341	-127.807	17.261	1256.573	1474.539	0.747	21.181	17.261	6.556
2022-09-01 1:30	6003007	8.335	-127.459	17.249	1256.826	1475.231	0.748	20.996	17.249	6.555
2022-09-01 1:45	6003907	8.263	-123.425	17.227	1257.584	1476.855	0.749	20.617	17.227	***6.200***
2022-09-01 2:00	6004807	8.337	-127.532	17.189	1256.753	1477.110	0.749	21.778	17.189	***6.290***
2022-09-01 2:15	6005707	8.297	-125.296	17.159	1255.426	1476.570	0.748	19.916	17.159	***6.182***
2022-09-01 2:30	6006607	8.312	-126.095	17.116	1242.498	1462.775	0.741	18.222	17.116	***6.169***
2022-09-01 2:45	6007507	8.304	-125.604	17.051	1235.294	1456.407	0.738	20.838	17.051	***6.123***
2022-09-01 3:00	6008407	8.300	-125.370	17.008	1233.924	1456.198	0.738	19.107	17.008	***6.012***
2022-09-01 3:15	6009307	8.296	-125.129	16.985	1232.680	1455.513	0.737	20.499	16.985	***6.043***
2022-09-01 3:30	6010207	8.268	-123.570	16.932	1233.796	1458.543	0.739	18.032	16.932	***5.840***
2022-09-01 3:45	6011107	8.287	-124.624	16.901	1233.013	1458.659	0.739	20.451	16.901	***6.088***
2022-09-01 4:00	6012007	8.313	-126.011	16.846	1232.776	1460.180	0.740	27.195	16.846	***6.083***
2022-09-01 4:15	6012907	8.297	-125.146	16.801	1230.832	1459.383	0.739	18.222	16.801	***6.050***
2022-09-01 4:30	6013807	8.294	-124.929	16.752	1230.982	1461.176	0.740	17.270	16.752	***6.085***
2022-09-01 4:45	6014707	8.288	-124.552	16.699	1227.073	1458.284	0.738	18.958	16.699	***5.998***
2022-09-01 5:00	6015607	8.292	-124.776	16.588	1216.185	1449.001	0.733	20.196	16.588	***5.969***
2022-09-01 5:15	6016507	8.292	-124.741	16.546	1220.146	1455.104	0.737	19.047	16.546	***6.046***
2022-09-01 5:30	6017407	8.291	-124.609	16.435	1216.140	1454.007	0.736	19.329	16.435	***6.043***
2022-09-01 5:45	6018307	8.293	-124.714	16.349	1214.494	1454.897	0.736	19.414	16.349	***6.055***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-01 6:00	6019207	8.306	-125.375	16.228	1208.082	1451.227	0.734	23.092	16.228	***5.988***
2022-09-01 6:15	6020107	8.283	-124.078	16.158	1208.949	1454.592	0.736	18.688	16.158	***6.006***
2022-09-01 6:30	6021007	8.282	-123.961	16.067	1206.029	1454.145	0.736	20.382	16.067	***5.978***
2022-09-01 6:45	6021907	8.288	-124.266	15.969	1202.269	1452.869	0.735	18.804	15.969	***5.984***
2022-09-01 7:00	6022807	8.297	-124.686	15.810	1193.364	1447.419	0.732	20.232	15.810	***5.960***
2022-09-01 7:15	6023707	8.289	-124.199	15.749	1198.636	1455.892	0.736	18.143	15.749	***6.046***
2022-09-01 7:30	6024607	8.290	-124.238	15.656	1199.377	1459.943	0.739	16.726	15.656	***6.076***
2022-09-01 7:45	6025507	8.293	-124.412	15.630	1199.186	1460.577	0.739	16.268	15.630	***6.023***
2022-09-01 8:00	6026407	8.314	-125.496	15.521	1190.198	1453.335	0.735	19.401	15.521	***5.970***
2022-09-01 8:15	6027307	8.286	-123.973	15.506	1192.016	1456.033	0.736	16.072	15.506	***5.944***
2022-09-01 8:30	6028207	8.298	-124.590	15.445	1192.636	1458.876	0.738	17.361	15.445	***6.141***
2022-09-01 8:45	6029107	8.312	-125.401	15.446	1203.577	1472.222	0.745	15.096	15.446	***6.063***
2022-09-01 9:00	6030007	8.320	-125.790	15.402	1197.586	1466.394	0.742	17.341	15.402	***6.151***
2022-09-01 9:15	6030907	8.318	-125.673	15.357	1197.468	1467.806	0.742	14.721	15.357	***6.138***
2022-09-01 9:30	6031807	8.315	-125.473	15.294	1195.462	1467.525	0.742	16.444	15.294	***6.361***
2022-09-01 9:45	6032707	8.279	-123.458	15.244	1196.221	1470.188	0.744	15.277	15.244	***5.966***
2022-09-01 10:00	6033607	8.337	-126.681	15.211	1196.567	1471.752	0.744	16.166	15.211	***6.105***
2022-09-01 10:15	6034507	8.320	-125.711	15.149	1198.445	1476.188	0.747	12.188	15.149	***6.095***
2022-09-01 10:30	6035407	8.314	-125.370	15.127	1198.876	1477.484	0.747	11.759	15.127	***6.089***
2022-09-01 10:45	6036307	8.323	-125.816	15.118	1198.804	1477.712	0.748	10.936	15.118	***6.218***
2022-09-01 11:00	6037207	8.336	-126.591	15.151	1195.987	1473.094	0.745	14.833	15.151	***5.997***
2022-09-01 11:15	6038107	8.302	-124.700	15.156	1195.862	1472.771	0.745	11.867	15.156	***5.650***
2022-09-01 11:30	6039007	8.293	-124.185	15.175	1195.859	1472.126	0.745	12.588	15.175	***5.485***
2022-09-01 11:45	6039907	8.277	-123.317	15.203	1193.899	1468.724	0.743	11.353	15.203	***5.801***
2022-09-01 12:00	6040807	8.307	-125.029	15.264	1193.907	1466.625	0.742	13.971	15.264	***5.972***
2022-09-01 12:15	6041707	8.286	-123.854	15.293	1193.653	1465.326	0.741	11.948	15.293	***5.893***
2022-09-01 12:30	6042607	8.280	-123.527	15.328	1194.690	1465.402	0.741	11.633	15.328	***5.837***
2022-09-01 12:45	6043507	8.275	-123.293	15.365	1196.519	1466.373	0.742	10.813	15.365	***6.152***
2022-09-01 13:00	6044407	8.285	-123.835	15.420	1200.068	1468.832	0.743	17.530	15.420	***6.346***
2022-09-01 13:15	6045307	8.311	-125.337	15.438	1200.064	1468.194	0.743	11.362	15.438	6.683
2022-09-01 13:30	6046207	8.298	-124.593	15.476	1201.805	1469.050	0.743	11.751	15.476	6.603
2022-09-01 13:45	6047107	8.315	-125.561	15.523	1203.786	1469.847	0.744	10.232	15.523	***6.282***
2022-09-01 14:00	6048007	8.310	-125.308	15.611	1205.279	1468.660	0.743	17.653	15.611	***5.617***
2022-09-01 14:15	6048907	8.278	-123.596	15.711	1207.706	1468.192	0.743	10.889	15.711	6.600
2022-09-01 14:30	6049807	8.295	-124.605	15.879	1213.940	1470.028	0.744	11.763	15.879	8.142
2022-09-01 14:45	6050707	8.302	-125.077	16.029	1222.049	1474.753	0.747	10.340	16.029	8.184
2022-09-01 15:00	6051608	8.361	-128.422	16.197	1239.336	1489.816	0.755	13.264	16.197	8.439
2022-09-01 15:15	6052508	8.365	-128.696	16.281	1242.230	1490.424	0.755	9.672	16.281	8.800
2022-09-01 15:30	6053408	8.387	-129.976	16.451	1248.021	1491.581	0.756	10.074	16.451	8.974
2022-09-01 15:45	6054308	8.396	-130.522	16.554	1250.569	1491.109	0.756	10.507	16.554	8.960
2022-09-01 16:00	6055208	8.432	-132.592	16.625	1255.430	1494.482	0.758	50.694	16.625	8.757
2022-09-01 16:15	6056108	8.407	-131.187	16.660	1257.707	1495.998	0.758	11.006	16.660	8.686
2022-09-01 16:30	6057008	8.419	-131.879	16.713	1260.626	1497.674	0.759	9.742	16.713	8.712
2022-09-01 16:45	6057908	8.418	-131.881	16.766	1262.118	1497.650	0.759	10.287	16.766	8.942

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-01 17:00	6058808	8.439	-133.057	16.782	1264.464	1499.889	0.761	12.443	16.782	8.801
2022-09-01 17:15	6059708	8.447	-133.481	16.755	1264.837	1501.254	0.761	9.455	16.755	8.734
2022-09-01 17:30	6060608	8.447	-133.450	16.727	1265.889	1503.470	0.762	8.113	16.727	8.514
2022-09-01 17:45	6061508	8.423	-132.153	16.735	1266.137	1503.491	0.762	8.260	16.735	8.952
2022-09-01 18:00	6062408	8.472	-134.876	16.777	1267.740	1503.943	0.763	11.545	16.777	9.293
2022-09-01 18:15	6063308	8.460	-134.206	16.803	1267.462	1502.747	0.762	8.459	16.803	9.227
2022-09-01 18:30	6064208	8.451	-133.762	16.832	1268.382	1502.853	0.762	7.824	16.832	9.461
2022-09-01 18:45	6065108	8.456	-134.020	16.863	1268.238	1501.598	0.761	8.242	16.863	9.630
2022-09-01 19:00	6066008	8.440	-133.140	16.906	1267.477	1499.258	0.760	9.692	16.906	9.579
2022-09-01 19:15	6066908	8.444	-133.424	16.931	1267.973	1498.990	0.760	8.428	16.931	9.436
2022-09-01 19:30	6067808	8.436	-132.973	16.926	1267.907	1499.095	0.760	8.590	16.926	9.255
2022-09-01 19:45	6068708	8.418	-131.891	16.851	1253.567	1484.638	0.752	10.480	16.851	8.937
2022-09-01 20:00	6069608	8.416	-131.721	16.679	1239.336	1473.515	0.746	14.566	16.679	8.721
2022-09-01 20:15	6070508	8.385	-129.964	16.684	1240.929	1475.256	0.747	10.379	16.684	8.243
2022-09-01 20:30	6071408	8.368	-129.058	16.699	1243.631	1477.948	0.749	8.805	16.699	7.988
2022-09-01 20:45	6072308	8.350	-128.031	16.739	1246.969	1480.586	0.750	7.881	16.739	7.789
2022-09-01 21:00	6073208	8.361	-128.706	16.815	1254.540	1487.012	0.754	10.376	16.815	7.529
2022-09-01 21:15	6074108	8.353	-128.281	16.845	1255.523	1487.153	0.754	8.584	16.845	7.359
2022-09-01 21:30	6075008	8.352	-128.171	16.763	1256.257	1490.815	0.756	9.204	16.763	7.352
2022-09-01 21:45	6075908	8.333	-127.032	16.563	1255.580	1496.783	0.759	9.052	16.563	7.052
2022-09-01 22:00	6076808	8.397	-130.503	16.310	1254.041	1503.603	0.762	15.005	16.310	7.118
2022-09-01 22:15	6077708	8.384	-129.690	16.201	1251.157	1503.898	0.762	7.615	16.201	7.484
2022-09-01 22:30	6078608	8.383	-129.633	16.136	1249.733	1504.430	0.762	7.440	16.136	7.369
2022-09-01 22:45	6079508	8.382	-129.576	16.085	1247.146	1503.072	0.762	7.572	16.085	7.393
2022-09-01 23:00	6080408	8.385	-129.704	16.019	1242.476	1499.728	0.760	8.719	16.019	7.347
2022-09-01 23:15	6081308	8.417	-131.428	15.958	1240.906	1499.945	0.760	8.280	15.958	7.283
2022-09-01 23:30	6082208	8.434	-132.327	15.852	1238.438	1500.652	0.760	10.336	15.852	7.063
2022-09-01 23:45	6083108	8.453	-133.331	15.705	1232.081	1498.043	0.759	15.154	15.705	7.232
2022-09-02 0:00	6084008	8.466	-133.991	15.587	1228.109	1497.313	0.758	19.749	15.587	7.291
2022-09-02 0:15	6084908	8.445	-132.790	15.470	1224.940	1497.517	0.758	19.793	15.470	7.384
2022-09-02 0:30	6085808	8.453	-133.166	15.367	1221.767	1497.241	0.758	20.560	15.367	7.399
2022-09-02 0:45	6086708	8.445	-132.697	15.258	1214.871	1492.587	0.756	22.867	15.258	7.317
2022-09-02 1:00	6087608	8.469	-133.984	15.177	1215.000	1495.591	0.757	26.842	15.177	7.221
2022-09-02 1:15	6088508	8.445	-132.625	15.110	1212.753	1495.199	0.757	25.608	15.110	7.223
2022-09-02 1:30	6089408	8.431	-131.803	15.045	1211.535	1495.974	0.757	24.646	15.045	7.146
2022-09-02 1:45	6090308	8.433	-131.862	14.955	1208.119	1494.925	0.756	24.986	14.955	7.101
2022-09-02 2:00	6091208	8.455	-133.061	14.861	1202.654	1491.493	0.755	31.535	14.861	7.057
2022-09-02 2:15	6092108	8.428	-131.507	14.802	1200.698	1491.140	0.754	26.018	14.802	6.954
2022-09-02 2:30	6093008	8.419	-130.980	14.720	1197.290	1489.810	0.754	25.799	14.720	6.961
2022-09-02 2:45	6093908	8.416	-130.820	14.656	1197.511	1492.357	0.755	25.557	14.656	6.899
2022-09-02 3:00	6094808	8.425	-131.283	14.571	1191.849	1488.295	0.753	30.370	14.571	6.671
2022-09-02 3:15	6095708	8.410	-130.377	14.512	1190.197	1488.357	0.753	25.349	14.512	6.900
2022-09-02 3:30	6096608	8.405	-130.117	14.443	1187.987	1488.021	0.752	24.943	14.443	6.868
2022-09-02 3:45	6097508	8.400	-129.774	14.372	1185.884	1487.927	0.752	29.807	14.372	6.819

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-02 4:00	6098408	8.422	-130.990	14.294	1176.783	1479.276	0.748	38.320	14.294	6.729
2022-09-02 4:15	6099308	8.388	-129.061	14.243	1177.699	1482.243	0.749	24.330	14.243	6.504
2022-09-02 4:30	6100208	8.388	-129.030	14.180	1176.574	1483.076	0.749	24.261	14.180	6.682
2022-09-02 4:45	6101108	8.388	-129.030	14.114	1174.787	1483.171	0.749	22.156	14.114	6.727
2022-09-02 5:00	6102008	8.395	-129.352	14.016	1169.115	1479.522	0.747	31.690	14.016	6.677
2022-09-02 5:15	6102908	8.381	-128.551	13.989	1168.931	1480.248	0.748	24.564	13.989	6.602
2022-09-02 5:30	6103808	8.377	-128.341	13.946	1168.090	1480.710	0.748	22.963	13.946	***6.458***
2022-09-02 5:45	6104708	8.374	-128.102	13.874	1163.649	1477.667	0.746	22.583	13.874	***6.410***
2022-09-02 6:00	6105608	8.401	-129.557	13.788	1158.203	1473.838	0.744	25.789	13.788	***6.489***
2022-09-02 6:15	6106508	8.373	-128.028	13.769	1158.867	1475.362	0.745	23.791	13.769	***6.459***
2022-09-02 6:30	6107408	8.376	-128.167	13.737	1161.208	1479.475	0.747	23.618	13.737	***6.424***
2022-09-02 6:45	6108308	8.379	-128.312	13.723	1163.720	1483.194	0.749	23.684	13.723	***6.322***
2022-09-02 7:00	6109208	8.393	-129.075	13.637	1158.450	1479.549	0.747	61.560	13.637	***6.415***
2022-09-02 7:15	6110108	8.378	-128.255	13.619	1158.132	1479.815	0.747	31.018	13.619	***6.443***
2022-09-02 7:30	6111008	8.375	-128.038	13.587	1160.786	1484.343	0.750	28.592	13.587	***6.297***
2022-09-02 7:45	6111908	8.365	-127.461	13.527	1158.358	1483.420	0.749	19.869	13.527	***6.090***
2022-09-02 8:00	6112808	8.393	-129.008	13.472	1154.953	1481.057	0.748	24.981	13.472	***6.065***
2022-09-02 8:15	6113708	8.352	-126.698	13.436	1152.911	1479.736	0.747	20.406	13.436	***6.104***
2022-09-02 8:30	6114608	8.328	-125.394	13.401	1149.955	1477.226	0.746	18.080	13.401	***5.948***
2022-09-02 8:45	6115508	8.326	-125.279	13.394	1148.689	1475.849	0.745	18.879	13.394	***5.898***
2022-09-02 9:00	6116408	8.340	-126.016	13.332	1143.394	1471.283	0.742	21.919	13.332	***5.852***
2022-09-02 9:15	6117308	8.332	-125.577	13.320	1144.592	1473.262	0.743	18.638	13.320	***5.970***
2022-09-02 9:30	6118208	8.319	-124.853	13.331	1143.363	1471.288	0.742	18.194	13.331	***6.056***
2022-09-02 9:45	6119108	8.309	-124.295	13.348	1142.921	1470.113	0.742	17.787	13.348	***6.051***
2022-09-02 10:00	6120008	8.345	-126.269	13.367	1136.762	1461.481	0.737	19.489	13.367	***5.868***
2022-09-02 10:15	6120908	8.312	-124.493	13.381	1140.881	1466.267	0.740	17.940	13.381	***6.039***
2022-09-02 10:30	6121808	8.314	-124.598	13.402	1139.767	1464.079	0.739	16.312	13.402	***6.266***
2022-09-02 10:45	6122708	8.317	-124.786	13.425	1137.596	1460.470	0.737	16.786	13.425	***6.342***
2022-09-02 11:00	6123608	8.330	-125.515	13.472	1134.542	1454.899	0.734	20.621	13.472	***6.388***
2022-09-02 11:15	6124508	8.305	-124.125	13.502	1132.918	1451.740	0.732	15.709	13.502	***6.249***
2022-09-02 11:30	6125408	8.300	-123.875	13.564	1132.271	1448.710	0.731	14.842	13.564	***6.303***
2022-09-02 11:45	6126308	8.301	-123.982	13.650	1133.890	1447.731	0.730	15.119	13.650	6.622
2022-09-02 12:00	6127208	8.352	-126.841	13.775	1138.979	1449.809	0.731	18.875	13.775	7.155
2022-09-02 12:15	6128108	8.323	-125.270	13.816	1139.714	1449.309	0.731	16.014	13.816	6.761
2022-09-02 12:30	6129008	8.321	-125.189	13.888	1142.018	1449.715	0.732	15.103	13.888	7.051
2022-09-02 12:45	6129908	8.324	-125.453	14.043	1147.365	1451.041	0.732	15.222	14.043	7.180
2022-09-02 13:00	6130808	8.358	-127.494	14.406	1160.433	1454.816	0.735	19.984	14.406	7.954
2022-09-02 13:15	6131708	8.352	-127.213	14.569	1164.451	1454.155	0.735	15.680	14.569	8.804
2022-09-02 13:30	6132608	8.348	-127.060	14.777	1172.373	1456.830	0.736	16.383	14.777	8.690
2022-09-02 13:45	6133508	8.347	-127.101	14.947	1178.036	1457.977	0.737	15.906	14.947	8.944
2022-09-02 14:00	6134408	8.418	-131.104	15.142	1189.667	1465.626	0.741	19.724	15.142	9.376
2022-09-02 14:15	6135308	8.403	-130.315	15.202	1193.127	1467.808	0.742	16.584	15.202	9.798
2022-09-02 14:30	6136208	8.423	-131.495	15.328	1197.910	1469.365	0.743	14.680	15.328	9.737
2022-09-02 14:45	6137108	8.434	-132.163	15.470	1198.611	1465.348	0.741	14.518	15.470	9.802

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-02 15:00	6138008	8.427	-131.869	15.605	1194.570	1455.800	0.736	16.528	15.605	9.359
2022-09-02 15:15	6138908	8.402	-130.501	15.684	1195.584	1454.380	0.736	13.357	15.684	9.532
2022-09-02 15:30	6139808	8.408	-130.861	15.810	1199.875	1455.333	0.736	13.097	15.810	9.606
2022-09-02 15:45	6140708	8.381	-129.452	15.996	1206.170	1456.690	0.737	12.723	15.996	9.749
2022-09-02 16:00	6141608	8.445	-133.135	16.244	1215.652	1459.786	0.739	15.019	16.244	10.479
2022-09-02 16:15	6142508	8.428	-132.239	16.296	1217.296	1460.018	0.739	14.092	16.296	10.635
2022-09-02 16:30	6143408	8.433	-132.532	16.400	1233.953	1476.489	0.748	14.258	16.400	10.186
2022-09-02 16:45	6144308	8.442	-133.064	16.471	1236.727	1477.402	0.748	12.997	16.471	10.013
2022-09-02 17:00	6145208	8.452	-133.665	16.563	1236.724	1474.303	0.747	15.661	16.563	10.155
2022-09-02 17:15	6146108	8.438	-132.933	16.596	1236.558	1473.007	0.746	13.180	16.596	10.248
2022-09-02 17:30	6147008	8.438	-132.926	16.633	1237.322	1472.658	0.746	11.942	16.633	10.440
2022-09-02 17:45	6147908	8.448	-133.545	16.712	1237.368	1470.077	0.745	11.662	16.712	10.907
2022-09-02 18:00	6148808	8.465	-134.509	16.824	1240.884	1470.535	0.745	15.553	16.824	10.548
2022-09-02 18:15	6149708	8.444	-133.345	16.829	1240.082	1469.409	0.744	12.627	16.829	10.385
2022-09-02 18:30	6150608	8.431	-132.616	16.836	1240.091	1469.172	0.744	11.886	16.836	10.386
2022-09-02 18:45	6151508	8.418	-131.893	16.828	1240.390	1469.799	0.745	11.682	16.828	10.345
2022-09-02 19:00	6152408	8.409	-131.421	16.838	1241.148	1470.366	0.745	12.920	16.838	10.068
2022-09-02 19:15	6153308	8.441	-133.200	16.814	1239.437	1469.139	0.744	11.652	16.814	10.099
2022-09-02 19:30	6154208	8.444	-133.352	16.808	1239.342	1469.224	0.744	11.709	16.808	10.036
2022-09-02 19:45	6155108	8.415	-131.724	16.802	1239.445	1469.539	0.744	11.285	16.802	9.711
2022-09-02 20:00	6156008	8.415	-131.736	16.836	1238.853	1467.707	0.744	12.523	16.836	9.392
2022-09-02 20:15	6156908	8.391	-130.401	16.802	1238.533	1468.453	0.744	11.324	16.802	9.042
2022-09-02 20:30	6157808	8.378	-129.657	16.770	1237.334	1468.098	0.744	11.405	16.770	8.786
2022-09-02 20:45	6158708	8.382	-129.826	16.745	1235.675	1466.976	0.743	11.180	16.745	8.713
2022-09-02 21:00	6159608	8.395	-130.591	16.759	1231.753	1461.838	0.740	12.117	16.759	8.344
2022-09-02 21:15	6160508	8.361	-128.684	16.751	1231.560	1461.899	0.740	10.927	16.751	8.255
2022-09-02 21:30	6161408	8.359	-128.603	16.772	1232.219	1461.976	0.740	10.639	16.772	8.123
2022-09-02 21:45	6162308	8.354	-128.295	16.770	1232.995	1462.976	0.741	13.087	16.770	8.022
2022-09-02 22:00	6163208	8.360	-128.615	16.733	1228.310	1458.612	0.739	16.432	16.733	7.693
2022-09-02 22:15	6164108	8.332	-127.015	16.682	1226.976	1458.722	0.739	10.180	16.682	7.502
2022-09-02 22:30	6165008	8.307	-125.587	16.603	1219.766	1452.778	0.735	10.586	16.603	7.362
2022-09-02 22:45	6165908	8.316	-126.107	16.579	1218.888	1452.512	0.735	9.959	16.579	7.763
2022-09-02 23:00	6166808	8.307	-125.551	16.451	1198.865	1432.831	0.725	12.251	16.451	7.486
2022-09-02 23:15	6167708	8.297	-124.905	16.319	1193.247	1430.422	0.723	10.685	16.319	7.106
2022-09-02 23:30	6168608	8.272	-123.527	16.293	1201.988	1441.774	0.729	10.348	16.293	6.937
2022-09-02 23:45	6169508	8.223	-120.771	16.257	1205.038	1446.601	0.732	9.820	16.257	6.647
2022-09-03 0:00	6170408	8.278	-123.808	16.220	1190.013	1429.785	0.723	12.131	16.220	***6.271***
2022-09-03 0:15	6171308	8.243	-121.782	16.040	1186.077	1430.967	0.724	9.528	16.040	***6.200***
2022-09-03 0:30	6172208	8.247	-121.951	15.965	1184.901	1432.010	0.724	9.589	15.965	***6.200***
2022-09-03 0:45	6173108	8.238	-121.479	15.912	1185.109	1434.022	0.725	9.828	15.912	***6.221***
2022-09-03 1:00	6174008	8.252	-122.201	15.850	1168.189	1415.591	0.715	12.829	15.850	***6.002***
2022-09-03 1:15	6174908	8.240	-121.508	15.748	1167.494	1418.081	0.716	10.311	15.748	***5.976***
2022-09-03 1:30	6175808	8.233	-121.088	15.709	1171.044	1423.697	0.719	9.655	15.709	***5.744***
2022-09-03 1:45	6176708	8.232	-121.017	15.627	1168.269	1423.029	0.719	9.771	15.627	***5.664***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-03 2:00	6177608	8.286	-123.999	15.601	1149.505	1401.025	0.707	12.115	15.601	***6.172***
2022-09-03 2:15	6178508	8.261	-122.559	15.486	1149.134	1404.318	0.709	10.072	15.486	***5.985***
2022-09-03 2:30	6179408	8.266	-122.805	15.434	1148.859	1405.700	0.710	10.122	15.434	***5.906***
2022-09-03 2:45	6180308	8.268	-122.876	15.382	1149.748	1408.494	0.711	10.096	15.382	***6.246***
2022-09-03 3:00	6181208	8.258	-122.330	15.323	1140.221	1398.768	0.706	13.020	15.323	***6.430***
2022-09-03 3:15	6182108	8.263	-122.540	15.241	1139.076	1400.027	0.707	11.459	15.241	***6.336***
2022-09-03 3:30	6183008	8.269	-122.855	15.193	1140.203	1403.017	0.708	10.335	15.193	***6.263***
2022-09-03 3:45	6183908	8.278	-123.343	15.168	1143.439	1407.802	0.711	11.325	15.168	6.622
2022-09-03 4:00	6184808	8.318	-125.582	15.173	1144.788	1409.304	0.711	13.720	15.173	6.655
2022-09-03 4:15	6185708	8.289	-123.937	15.051	1139.952	1407.384	0.710	12.455	15.051	***6.198***
2022-09-03 4:30	6186608	8.285	-123.677	14.989	1137.341	1406.215	0.710	11.517	14.989	***6.397***
2022-09-03 4:45	6187508	8.277	-123.219	14.894	1134.183	1405.474	0.709	9.945	14.894	***6.327***
2022-09-03 5:00	6188408	8.273	-122.879	14.711	1108.015	1379.024	0.695	13.348	14.711	***5.862***
2022-09-03 5:15	6189308	8.238	-120.902	14.655	1110.961	1384.525	0.698	11.581	14.655	***5.759***
2022-09-03 5:30	6190208	8.230	-120.428	14.586	1110.280	1385.947	0.699	10.490	14.586	***5.686***
2022-09-03 5:45	6191108	8.222	-119.982	14.526	1109.658	1387.177	0.699	9.890	14.526	***5.634***
2022-09-03 6:00	6192008	8.270	-122.621	14.488	1106.553	1384.550	0.698	13.711	14.488	***5.418***
2022-09-03 6:15	6192908	8.220	-119.801	14.382	1102.370	1382.795	0.697	11.424	14.382	***5.478***
2022-09-03 6:30	6193808	8.240	-120.895	14.316	1099.687	1381.627	0.696	11.290	14.316	***5.636***
2022-09-03 6:45	6194708	8.219	-119.708	14.298	1107.499	1392.029	0.702	13.793	14.298	***5.472***
2022-09-03 7:00	6195608	8.239	-120.828	14.312	1107.716	1391.863	0.701	13.694	14.312	***4.956***
2022-09-03 7:15	6196508	8.221	-119.781	14.223	1106.591	1393.416	0.702	11.614	14.223	***5.212***
2022-09-03 7:30	6197408	8.227	-120.132	14.182	1105.488	1393.404	0.702	10.841	14.182	***5.448***
2022-09-03 7:45	6198308	8.220	-119.693	14.142	1104.023	1392.881	0.702	10.570	14.142	***5.706***
2022-09-03 8:00	6199208	8.254	-121.593	14.111	1097.646	1385.877	0.698	16.522	14.111	***5.912***
2022-09-03 8:15	6200108	8.235	-120.509	14.060	1091.631	1379.999	0.695	11.847	14.060	***5.318***
2022-09-03 8:30	6201008	8.234	-120.454	14.034	1094.063	1383.916	0.697	12.916	14.034	***5.456***
2022-09-03 8:45	6201908	8.244	-120.995	14.022	1098.326	1389.722	0.700	12.099	14.022	***5.758***
2022-09-03 9:00	6202808	8.248	-121.207	14.040	1100.318	1391.635	0.701	14.591	14.040	***6.005***
2022-09-03 9:15	6203708	8.244	-121.002	14.024	1098.749	1390.208	0.700	13.652	14.024	***5.949***
2022-09-03 9:30	6204608	8.253	-121.481	14.025	1099.357	1390.943	0.701	11.679	14.025	***5.940***
2022-09-03 9:45	6205508	8.230	-120.249	14.048	1101.705	1393.108	0.702	15.206	14.048	***6.281***
2022-09-03 10:00	6206408	8.296	-123.901	14.116	1111.640	1403.387	0.707	53.338	14.116	***6.182***
2022-09-03 10:15	6207308	8.267	-122.325	14.149	1113.213	1404.260	0.708	18.079	14.149	***6.286***
2022-09-03 10:30	6208208	8.259	-121.899	14.151	1116.616	1408.475	0.710	15.874	14.151	***6.332***
2022-09-03 10:45	6209108	8.274	-122.707	14.166	1118.859	1410.801	0.711	14.198	14.166	6.613
2022-09-03 11:00	6210008	8.334	-126.071	14.221	1128.497	1421.075	0.717	20.718	14.221	6.711
2022-09-03 11:15	6210908	8.310	-124.769	14.284	1131.610	1422.837	0.718	25.184	14.284	6.753
2022-09-03 11:30	6211808	8.306	-124.550	14.357	1135.911	1425.733	0.719	15.974	14.357	6.910
2022-09-03 11:45	6212708	8.292	-123.832	14.417	1141.442	1430.613	0.722	13.687	14.417	7.293
2022-09-03 12:00	6213608	8.357	-127.449	14.536	1130.193	1412.499	0.713	19.107	14.536	7.639
2022-09-03 12:15	6214508	8.304	-124.509	14.527	1132.767	1416.032	0.714	13.986	14.527	7.494
2022-09-03 12:30	6215408	8.302	-124.438	14.550	1138.467	1422.355	0.718	12.159	14.550	7.541
2022-09-03 12:45	6216308	8.289	-123.727	14.598	1141.913	1425.046	0.719	11.387	14.598	7.514

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-03 13:00	6217208	8.343	-126.796	14.704	1142.172	1421.762	0.718	14.437	14.704	7.589
2022-09-03 13:15	6218108	8.315	-125.239	14.766	1142.888	1420.559	0.717	11.455	14.766	7.617
2022-09-03 13:30	6219008	8.310	-125.008	14.853	1144.712	1419.889	0.717	11.529	14.853	7.669
2022-09-03 13:45	6219908	8.319	-125.527	14.921	1146.839	1420.258	0.717	11.577	14.921	7.928
2022-09-03 14:00	6220808	8.394	-129.728	15.004	1155.854	1428.603	0.721	14.396	15.004	8.177
2022-09-03 14:15	6221708	8.397	-129.888	15.032	1168.012	1442.697	0.729	13.119	15.032	8.191
2022-09-03 14:30	6222608	8.386	-129.352	15.086	1169.139	1442.234	0.729	11.371	15.086	8.512
2022-09-03 14:45	6223508	8.386	-129.368	15.177	1173.223	1444.170	0.730	10.697	15.177	8.764
2022-09-03 15:00	6224408	8.392	-129.774	15.301	1178.320	1446.235	0.731	13.874	15.301	8.668
2022-09-03 15:15	6225308	8.389	-129.588	15.345	1179.515	1446.202	0.731	12.632	15.345	9.438
2022-09-03 15:30	6226208	8.385	-129.409	15.423	1183.992	1449.067	0.733	10.302	15.423	9.726
2022-09-03 15:45	6227108	8.406	-130.634	15.496	1188.040	1451.518	0.734	12.728	15.496	9.509
2022-09-03 16:00	6228008	8.466	-134.006	15.611	1201.043	1463.496	0.740	13.194	15.611	9.412
2022-09-03 16:15	6228908	8.461	-133.762	15.664	1205.178	1466.714	0.742	11.964	15.664	9.731
2022-09-03 16:30	6229808	8.456	-133.526	15.739	1208.131	1467.747	0.743	10.393	15.739	9.821
2022-09-03 16:45	6230708	8.440	-132.687	15.848	1213.071	1470.033	0.744	9.848	15.848	9.539
2022-09-03 17:00	6231608	8.459	-133.779	15.976	1218.593	1472.353	0.745	16.372	15.976	9.849
2022-09-03 17:15	6232508	8.442	-132.902	16.051	1218.911	1470.211	0.744	12.274	16.051	10.110
2022-09-03 17:30	6233408	8.447	-133.226	16.140	1221.546	1470.362	0.744	12.448	16.140	10.675
2022-09-03 17:45	6234308	8.460	-133.965	16.270	1223.750	1468.629	0.744	10.642	16.270	10.784
2022-09-03 18:00	6235208	8.477	-135.081	16.617	1234.498	1469.842	0.744	19.639	16.617	10.580
2022-09-03 18:15	6236108	8.456	-133.967	16.714	1235.847	1468.221	0.744	11.642	16.714	10.749
2022-09-03 18:30	6237008	8.453	-133.882	16.893	1239.932	1467.096	0.743	11.001	16.893	10.892
2022-09-03 18:45	6237908	8.450	-133.836	17.107	1242.594	1463.185	0.741	11.621	17.107	10.905
2022-09-03 19:00	6238808	8.460	-134.468	17.352	1244.313	1457.184	0.738	11.600	17.352	10.745
2022-09-03 19:15	6239708	8.437	-133.233	17.402	1244.165	1455.385	0.737	10.737	17.402	10.648
2022-09-03 19:30	6240608	8.424	-132.496	17.435	1244.701	1454.912	0.737	11.000	17.435	10.471
2022-09-03 19:45	6241508	8.413	-131.905	17.451	1245.226	1455.007	0.737	9.920	17.451	10.373
2022-09-03 20:00	6242408	8.416	-132.089	17.454	1246.298	1456.162	0.738	13.234	17.454	10.183
2022-09-03 20:15	6243308	8.376	-129.805	17.409	1243.125	1453.934	0.737	11.068	17.409	10.068
2022-09-03 20:30	6244208	8.353	-128.529	17.412	1243.121	1453.832	0.736	11.107	17.412	10.099
2022-09-03 20:45	6245108	8.330	-127.213	17.321	1240.493	1453.717	0.736	9.120	17.321	9.909
2022-09-03 21:00	6246008	8.353	-128.462	17.220	1232.112	1447.160	0.733	11.796	17.220	10.261
2022-09-03 21:15	6246908	8.357	-128.591	17.087	1223.839	1441.755	0.730	9.236	17.087	10.084
2022-09-03 21:30	6247808	8.352	-128.284	17.041	1221.610	1440.602	0.729	8.748	17.041	9.839
2022-09-03 21:45	6248708	8.360	-128.753	17.008	1220.450	1440.302	0.729	8.323	17.008	9.562
2022-09-03 22:00	6249608	8.388	-130.284	16.962	1212.116	1431.957	0.725	493.352	16.962	9.294
2022-09-03 22:15	6250508	8.346	-127.895	16.835	1206.553	1429.479	0.723	11.122	16.835	8.917
2022-09-03 22:30	6251408	8.346	-127.845	16.723	1201.486	1427.086	0.722	9.122	16.723	8.506
2022-09-03 22:45	6252308	8.314	-125.980	16.629	1185.905	1411.587	0.714	14.697	16.629	8.217
2022-09-03 23:00	6253208	8.305	-125.403	16.453	1152.678	1377.573	0.696	10.128	16.453	7.836
2022-09-03 23:15	6254108	8.264	-123.079	16.368	1154.197	1382.073	0.698	8.320	16.368	7.328
2022-09-03 23:30	6255008	8.253	-122.488	16.321	1152.442	1381.433	0.698	9.043	16.321	7.460
2022-09-03 23:45	6255908	8.239	-121.627	16.219	1147.899	1379.232	0.696	9.820	16.219	7.100

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-04 0:00	6256808	8.244	-121.846	16.061	1122.213	1353.276	0.683	10.782	16.061	6.875
2022-09-04 0:15	6257708	8.223	-120.652	15.965	1119.362	1352.804	0.682	9.681	15.965	6.725
2022-09-04 0:30	6258608	8.215	-120.142	15.876	1115.335	1350.730	0.681	9.016	15.876	6.649
2022-09-04 0:45	6259508	8.212	-119.939	15.781	1105.326	1341.542	0.676	10.004	15.781	***6.441***
2022-09-04 1:00	6260408	8.213	-119.982	15.697	1087.332	1322.292	0.666	11.210	15.697	***6.339***
2022-09-04 1:15	6261308	8.180	-118.117	15.593	1086.169	1324.065	0.667	11.201	15.593	***5.916***
2022-09-04 1:30	6262208	8.172	-117.609	15.507	1083.320	1323.232	0.666	11.606	15.507	***5.699***
2022-09-04 1:45	6263108	8.181	-118.072	15.471	1079.888	1320.162	0.665	10.322	15.471	***5.773***
2022-09-04 2:00	6264008	8.196	-118.911	15.434	1075.935	1316.469	0.663	34.318	15.434	***5.923***
2022-09-04 2:15	6264908	8.154	-116.560	15.358	1074.583	1317.162	0.663	9.335	15.358	***5.790***
2022-09-04 2:30	6265808	8.158	-116.754	15.294	1072.459	1316.533	0.663	9.940	15.294	***5.848***
2022-09-04 2:45	6266708	8.138	-115.616	15.206	1066.634	1312.071	0.660	10.749	15.206	***5.489***
2022-09-04 3:00	6267608	8.156	-116.568	15.136	1055.560	1300.588	0.654	12.305	15.136	***5.340***
2022-09-04 3:15	6268508	8.142	-115.762	15.069	1054.211	1300.976	0.654	10.792	15.069	***5.354***
2022-09-04 3:30	6269408	8.142	-115.747	14.995	1053.471	1302.337	0.655	14.449	14.995	***5.233***
2022-09-04 3:45	6270308	8.132	-115.156	14.978	1053.550	1302.952	0.655	10.206	14.978	***5.273***
2022-09-04 4:00	6271208	8.153	-116.327	14.936	1053.320	1303.972	0.656	11.366	14.936	***5.087***
2022-09-04 4:15	6272108	8.154	-116.370	14.893	1054.015	1306.171	0.657	10.860	14.893	***5.120***
2022-09-04 4:30	6273008	8.165	-116.978	14.863	1058.360	1312.480	0.660	10.831	14.863	***5.273***
2022-09-04 4:45	6273908	8.154	-116.317	14.823	1059.806	1315.529	0.662	10.804	14.823	***5.448***
2022-09-04 5:00	6274808	8.179	-117.714	14.794	1058.279	1314.536	0.661	11.057	14.794	***5.374***
2022-09-04 5:15	6275708	8.139	-115.466	14.768	1057.091	1313.868	0.661	19.019	14.768	***5.102***
2022-09-04 5:30	6276608	8.143	-115.709	14.752	1058.852	1316.543	0.662	8.319	14.752	***5.107***
2022-09-04 5:45	6277508	8.124	-114.627	14.685	1054.983	1313.839	0.661	10.017	14.685	***4.863***
2022-09-04 6:00	6278408	8.150	-116.062	14.634	1049.840	1309.012	0.658	10.809	14.634	***4.724***
2022-09-04 6:15	6279308	8.120	-114.336	14.575	1046.786	1307.031	0.657	9.718	14.575	***4.587***
2022-09-04 6:30	6280208	8.118	-114.241	14.560	1047.043	1307.834	0.658	9.284	14.560	***4.565***
2022-09-04 6:45	6281108	8.105	-113.487	14.530	1044.919	1306.125	0.657	8.940	14.530	***4.647***
2022-09-04 7:00	6282008	8.127	-114.713	14.511	1042.826	1304.097	0.656	11.236	14.511	***4.606***
2022-09-04 7:15	6282908	8.099	-113.163	14.485	1042.073	1303.965	0.655	9.263	14.485	***4.684***
2022-09-04 7:30	6283808	8.087	-112.453	14.461	1042.181	1304.825	0.656	11.102	14.461	***4.435***
2022-09-04 7:45	6284708	8.071	-111.597	14.452	1042.903	1306.017	0.656	10.116	14.452	***4.462***
2022-09-04 8:00	6285608	8.117	-114.148	14.452	1044.601	1308.147	0.658	12.229	14.452	***4.235***
2022-09-04 8:15	6286508	8.100	-113.204	14.462	1047.938	1312.007	0.660	9.755	14.462	***4.588***
2022-09-04 8:30	6287408	8.094	-112.870	14.472	1053.851	1319.097	0.663	9.731	14.472	***4.594***
2022-09-04 8:45	6288308	8.122	-114.403	14.490	1055.460	1320.558	0.664	10.224	14.490	***4.855***
2022-09-04 9:00	6289208	8.172	-117.195	14.519	1066.457	1333.382	0.671	11.497	14.519	***4.798***
2022-09-04 9:15	6290108	8.154	-116.248	14.541	1074.373	1342.560	0.676	9.148	14.541	***5.118***
2022-09-04 9:30	6291008	8.190	-118.227	14.571	1084.481	1354.234	0.682	9.876	14.571	***5.252***
2022-09-04 9:45	6291908	8.182	-117.807	14.610	1089.222	1358.880	0.684	9.282	14.610	***5.620***
2022-09-04 10:00	6292808	8.228	-120.370	14.659	1092.395	1361.269	0.686	13.045	14.659	***5.504***
2022-09-04 10:15	6293708	8.180	-117.764	14.738	1095.841	1363.003	0.687	11.406	14.738	***6.002***
2022-09-04 10:30	6294608	8.241	-121.160	14.798	1109.088	1377.501	0.694	10.024	14.798	***5.984***
2022-09-04 10:45	6295508	8.287	-123.732	14.842	1124.570	1395.286	0.704	10.435	14.842	6.526

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-04 11:00	6296408	8.334	-126.357	14.878	1126.978	1397.067	0.705	10.581	14.878	7.064
2022-09-04 11:15	6297308	8.291	-123.963	14.913	1132.795	1403.125	0.708	10.671	14.913	7.266
2022-09-04 11:30	6298208	8.331	-126.207	14.983	1143.500	1414.057	0.714	10.491	14.983	7.695
2022-09-04 11:45	6299108	8.346	-127.060	15.026	1148.376	1418.616	0.716	11.524	15.026	7.998
2022-09-04 12:00	6300008	8.411	-130.696	15.050	1153.751	1424.453	0.719	14.121	15.050	8.104
2022-09-04 12:15	6300908	8.387	-129.354	15.049	1155.365	1426.495	0.720	9.299	15.049	8.365
2022-09-04 12:30	6301808	8.378	-128.877	15.063	1158.296	1429.652	0.722	11.125	15.063	8.599
2022-09-04 12:45	6302708	8.396	-129.888	15.107	1163.770	1434.903	0.725	9.041	15.107	8.677
2022-09-04 13:00	6303608	8.422	-131.347	15.144	1167.326	1438.044	0.727	11.481	15.144	8.913
2022-09-04 13:15	6304508	8.374	-128.691	15.178	1168.865	1438.774	0.727	10.520	15.178	9.273
2022-09-04 13:30	6305408	8.400	-130.193	15.222	1171.242	1440.207	0.728	10.086	15.222	9.308
2022-09-04 13:45	6306308	8.434	-132.091	15.267	1173.915	1441.995	0.729	10.266	15.267	9.451
2022-09-04 14:00	6307208	8.476	-134.466	15.355	1175.410	1440.835	0.728	17.594	15.355	9.805
2022-09-04 14:15	6308108	8.448	-132.935	15.440	1175.568	1438.185	0.727	10.219	15.440	9.940
2022-09-04 14:30	6309008	8.456	-133.390	15.523	1175.060	1434.780	0.725	14.546	15.523	10.004
2022-09-04 14:45	6309908	8.456	-133.495	15.665	1176.067	1431.272	0.723	11.340	15.665	10.197
2022-09-04 15:00	6310808	8.485	-135.133	15.794	1178.050	1429.401	0.723	13.795	15.794	10.324
2022-09-04 15:15	6311708	8.469	-134.280	15.863	1178.208	1427.309	0.721	10.613	15.863	10.365
2022-09-04 15:30	6312608	8.467	-134.270	15.988	1180.746	1426.229	0.721	10.001	15.988	10.521
2022-09-04 15:45	6313508	8.467	-134.306	16.116	1183.578	1425.456	0.721	10.087	16.116	10.594
2022-09-04 16:00	6314408	8.502	-136.309	16.234	1186.769	1425.413	0.721	20.325	16.234	10.617
2022-09-04 16:15	6315308	8.486	-135.443	16.295	1188.117	1425.066	0.721	11.858	16.295	10.649
2022-09-04 16:30	6316208	8.493	-135.863	16.358	1189.358	1424.471	0.720	10.070	16.358	10.760
2022-09-04 16:45	6317108	8.486	-135.522	16.412	1190.830	1424.480	0.720	9.413	16.412	10.869
2022-09-04 17:00	6318008	8.506	-136.681	16.548	1195.561	1425.720	0.721	10.870	16.548	10.932
2022-09-04 17:15	6318908	8.500	-136.387	16.639	1197.344	1424.886	0.721	10.044	16.639	11.088
2022-09-04 17:30	6319809	8.500	-136.416	16.731	1199.449	1424.420	0.721	10.275	16.731	11.287
2022-09-04 17:45	6320709	8.508	-136.898	16.797	1200.709	1423.786	0.720	10.051	16.797	11.252
2022-09-04 18:00	6321609	8.528	-137.997	16.784	1199.422	1422.666	0.720	17.765	16.784	11.033
2022-09-04 18:15	6322509	8.495	-136.192	16.820	1199.179	1421.216	0.719	9.360	16.820	10.946
2022-09-04 18:30	6323409	8.494	-136.101	16.790	1196.760	1419.314	0.718	10.671	16.790	11.088
2022-09-04 18:45	6324309	8.474	-135.009	16.752	1194.158	1417.447	0.717	10.071	16.752	10.907
2022-09-04 19:00	6325209	8.491	-135.953	16.731	1193.178	1416.979	0.717	19.419	16.731	10.814
2022-09-04 19:15	6326109	8.470	-134.747	16.703	1190.146	1414.275	0.715	14.458	16.703	10.675
2022-09-04 19:30	6327009	8.414	-131.590	16.646	1186.867	1412.206	0.714	10.466	16.646	10.378
2022-09-04 19:45	6327909	8.442	-133.109	16.554	1180.501	1407.582	0.712	8.950	16.554	10.352
2022-09-04 20:00	6328809	8.460	-134.068	16.481	1172.006	1399.770	0.707	21.098	16.481	10.046
2022-09-04 20:15	6329709	8.434	-132.623	16.425	1168.065	1396.846	0.706	9.653	16.425	10.090
2022-09-04 20:30	6330609	8.407	-131.073	16.371	1166.326	1396.496	0.706	9.372	16.371	9.589
2022-09-04 20:45	6331509	8.370	-128.973	16.325	1165.448	1396.911	0.706	11.083	16.325	9.417
2022-09-04 21:00	6332409	8.420	-131.745	16.279	1156.615	1387.778	0.701	12.543	16.279	9.341
2022-09-04 21:15	6333309	8.398	-130.479	16.215	1154.107	1386.795	0.700	8.892	16.215	9.092
2022-09-04 21:30	6334209	8.391	-130.079	16.189	1150.156	1382.896	0.698	10.108	16.189	9.059
2022-09-04 21:45	6335109	8.381	-129.509	16.144	1149.366	1383.351	0.698	8.813	16.144	8.815

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-04 22:00	6336009	8.403	-130.751	16.090	1139.449	1373.142	0.693	12.984	16.090	8.651
2022-09-04 22:15	6336909	8.365	-128.620	16.054	1139.421	1374.242	0.694	9.075	16.054	8.522
2022-09-04 22:30	6337809	8.367	-128.670	16.033	1143.765	1380.144	0.697	8.399	16.033	8.352
2022-09-04 22:45	6338709	8.368	-128.706	15.977	1142.522	1380.430	0.697	9.477	15.977	8.421
2022-09-04 23:00	6339609	8.378	-129.242	15.943	1133.563	1370.676	0.692	9.632	15.943	8.148
2022-09-04 23:15	6340509	8.352	-127.811	15.917	1133.685	1371.638	0.692	8.078	15.917	8.008
2022-09-04 23:30	6341409	8.336	-126.896	15.879	1133.195	1372.250	0.692	7.995	15.879	7.689
2022-09-04 23:45	6342309	8.327	-126.407	15.840	1132.042	1372.109	0.692	8.400	15.840	7.678
2022-09-05 0:00	6343209	8.333	-126.662	15.763	1117.394	1356.776	0.684	8.911	15.763	7.502
2022-09-05 0:15	6344109	8.292	-124.333	15.640	1112.111	1354.208	0.683	7.482	15.640	7.079
2022-09-05 0:30	6345009	8.282	-123.744	15.597	1113.687	1357.494	0.684	7.795	15.597	6.860
2022-09-05 0:45	6345909	8.292	-124.300	15.560	1115.398	1360.739	0.686	6.963	15.560	6.654
2022-09-05 1:00	6346809	8.305	-124.991	15.515	1105.698	1350.318	0.681	7.645	15.515	6.568
2022-09-05 1:15	6347709	8.277	-123.460	15.475	1106.583	1352.667	0.682	6.948	15.475	***6.451***
2022-09-05 1:30	6348609	8.275	-123.341	15.447	1106.005	1352.855	0.682	8.367	15.447	***6.223***
2022-09-05 1:45	6349509	8.269	-122.986	15.407	1104.510	1352.273	0.682	6.515	15.407	***6.129***
2022-09-05 2:00	6350409	8.274	-123.208	15.334	1089.920	1336.707	0.673	7.956	15.334	***6.000***
2022-09-05 2:15	6351309	8.233	-120.885	15.277	1086.667	1334.481	0.672	6.980	15.277	***5.761***
2022-09-05 2:30	6352209	8.231	-120.783	15.228	1084.029	1332.776	0.671	6.491	15.228	***5.593***
2022-09-05 2:45	6353109	8.223	-120.289	15.186	1082.718	1332.495	0.671	6.152	15.186	***5.409***
2022-09-05 3:00	6354009	8.228	-120.549	15.138	1073.160	1322.226	0.666	7.084	15.138	***5.237***
2022-09-05 3:15	6354909	8.195	-118.723	15.083	1072.428	1323.041	0.666	7.029	15.083	***5.149***
2022-09-05 3:30	6355809	8.189	-118.346	15.054	1070.162	1321.139	0.665	6.388	15.054	***5.070***
2022-09-05 3:45	6356709	8.179	-117.819	15.025	1062.606	1312.696	0.660	7.486	15.025	***5.045***
2022-09-05 4:00	6357609	8.201	-119.009	15.006	1056.678	1305.970	0.657	8.328	15.006	***4.940***
2022-09-05 4:15	6358509	8.167	-117.128	14.975	1052.781	1302.106	0.655	9.369	14.975	***5.115***
2022-09-05 4:30	6359409	8.156	-116.470	14.910	1048.331	1298.610	0.653	9.741	14.910	***4.907***
2022-09-05 4:45	6360309	8.153	-116.272	14.859	1045.401	1296.534	0.652	11.668	14.859	***4.958***
2022-09-05 5:00	6361209	8.161	-116.737	14.810	1035.512	1285.765	0.646	8.597	14.810	***4.835***
2022-09-05 5:15	6362109	8.136	-115.309	14.756	1036.779	1288.978	0.648	8.129	14.756	***4.490***
2022-09-05 5:30	6363009	8.122	-114.505	14.710	1037.943	1291.835	0.649	8.071	14.710	***4.221***
2022-09-05 5:45	6363909	8.115	-114.093	14.653	1039.274	1295.240	0.651	6.709	14.653	***3.958***
2022-09-05 6:00	6364809	8.143	-115.657	14.617	1024.784	1278.278	0.642	9.869	14.617	***3.758***
2022-09-05 6:15	6365709	8.104	-113.440	14.578	1032.557	1289.168	0.648	6.820	14.578	***3.670***
2022-09-05 6:30	6366609	8.106	-113.535	14.536	1033.117	1291.170	0.649	6.412	14.536	***3.695***
2022-09-05 6:45	6367509	8.098	-113.091	14.471	1032.075	1291.868	0.649	5.956	14.471	***3.625***
2022-09-05 7:00	6368409	8.123	-114.458	14.426	1019.721	1277.792	0.642	15.334	14.426	***3.654***
2022-09-05 7:15	6369309	8.104	-113.401	14.408	1017.935	1276.089	0.641	7.968	14.408	***3.773***
2022-09-05 7:30	6370209	8.095	-112.872	14.395	1019.094	1277.943	0.642	10.842	14.395	***3.637***
2022-09-05 7:45	6371109	8.099	-113.125	14.361	1015.908	1274.980	0.640	10.965	14.361	***3.811***
2022-09-05 8:00	6372009	8.132	-114.872	14.284	1004.210	1262.645	0.634	14.193	14.284	***4.254***
2022-09-05 8:15	6372909	8.095	-112.815	14.196	999.289	1259.118	0.632	10.258	14.196	***3.978***
2022-09-05 8:30	6373809	8.087	-112.333	14.129	996.500	1257.617	0.631	11.838	14.129	***4.166***
2022-09-05 8:45	6374709	8.078	-111.814	14.025	990.246	1252.871	0.628	11.338	14.025	***3.879***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-05 9:00	6375609	8.103	-113.153	13.956	978.768	1240.417	0.622	12.691	13.956	***3.966***
2022-09-05 9:15	6376509	8.098	-112.884	13.945	988.788	1253.465	0.629	9.841	13.945	***4.425***
2022-09-05 9:30	6377409	8.104	-113.213	13.960	999.949	1267.158	0.636	9.658	13.960	***4.566***
2022-09-05 9:45	6378309	8.120	-114.090	13.895	996.526	1264.787	0.634	10.975	13.895	***4.920***
2022-09-05 10:00	6379209	8.152	-115.817	13.825	980.151	1246.132	0.625	23.957	13.825	***4.907***
2022-09-05 10:15	6380109	8.155	-115.952	13.786	983.133	1251.111	0.627	13.015	13.786	***5.240***
2022-09-05 10:30	6381009	8.170	-116.775	13.766	988.269	1258.264	0.631	10.670	13.766	***5.431***
2022-09-05 10:45	6381909	8.188	-117.795	13.731	992.355	1264.528	0.634	9.974	13.731	***5.678***
2022-09-05 11:00	6382809	8.234	-120.294	13.736	994.589	1267.208	0.636	26.702	13.736	***5.907***
2022-09-05 11:15	6383709	8.235	-120.447	13.887	1021.759	1297.066	0.651	12.759	13.887	***6.327***
2022-09-05 11:30	6384609	8.295	-123.773	13.958	1034.423	1310.881	0.659	11.725	13.958	6.925
2022-09-05 11:45	6385509	8.332	-125.875	14.031	1048.521	1326.423	0.667	9.452	14.031	7.163
2022-09-05 12:00	6386409	8.389	-129.006	14.052	1052.659	1330.978	0.669	16.489	14.052	7.557
2022-09-05 12:15	6387309	8.362	-127.563	14.096	1056.205	1334.027	0.671	9.362	14.096	7.787
2022-09-05 12:30	6388209	8.427	-131.235	14.306	1089.305	1368.927	0.689	10.098	14.306	8.047
2022-09-05 12:45	6389109	8.449	-132.461	14.341	1093.061	1372.474	0.691	9.327	14.341	8.344
2022-09-05 13:00	6390009	8.476	-133.963	14.331	1088.084	1366.552	0.688	17.311	14.331	8.584
2022-09-05 13:15	6390909	8.465	-133.426	14.467	1101.561	1378.989	0.695	10.297	14.467	8.667
2022-09-05 13:30	6391809	8.478	-134.163	14.523	1104.573	1380.898	0.696	10.123	14.523	8.847
2022-09-05 13:45	6392709	8.485	-134.585	14.560	1107.522	1383.378	0.697	8.962	14.560	9.010
2022-09-05 14:00	6393609	8.526	-136.912	14.639	1106.002	1378.861	0.695	24.400	14.639	9.256
2022-09-05 14:15	6394509	8.522	-136.747	14.757	1115.532	1386.864	0.699	9.599	14.757	9.345
2022-09-05 14:30	6395409	8.527	-137.055	14.882	1119.838	1388.082	0.700	11.993	14.882	9.597
2022-09-05 14:45	6396309	8.534	-137.508	14.978	1123.140	1389.016	0.701	12.842	14.978	9.582
2022-09-05 15:00	6397209	8.569	-139.458	15.062	1129.205	1393.754	0.703	13.981	15.062	9.605
2022-09-05 15:15	6398109	8.554	-138.676	15.086	1129.866	1393.792	0.703	10.369	15.086	9.834
2022-09-05 15:30	6399009	8.556	-138.803	15.192	1132.347	1393.361	0.703	11.253	15.192	10.041
2022-09-05 15:45	6399909	8.555	-138.810	15.244	1133.145	1392.655	0.703	12.426	15.244	10.065
2022-09-05 16:00	6400809	8.595	-141.063	15.307	1136.006	1394.109	0.704	18.224	15.307	10.152
2022-09-05 16:15	6401709	8.565	-139.387	15.325	1135.589	1393.007	0.703	9.136	15.325	10.139
2022-09-05 16:30	6402609	8.568	-139.582	15.385	1137.035	1392.825	0.703	10.596	15.385	10.261
2022-09-05 16:45	6403509	8.574	-139.921	15.414	1136.660	1391.417	0.702	10.432	15.414	10.425
2022-09-05 17:00	6404409	8.592	-140.934	15.452	1136.842	1390.419	0.702	15.255	15.452	10.406
2022-09-05 17:15	6405309	8.567	-139.592	15.499	1136.952	1389.013	0.701	9.208	15.499	10.480
2022-09-05 17:30	6406209	8.562	-139.327	15.536	1138.325	1389.483	0.701	8.052	15.536	10.492
2022-09-05 17:45	6407109	8.595	-141.127	15.530	1139.749	1391.426	0.702	13.221	15.530	10.439
2022-09-05 18:00	6408009	8.621	-142.581	15.513	1137.705	1389.495	0.701	21.011	15.513	10.638
2022-09-05 18:15	6408909	8.594	-141.063	15.501	1132.041	1382.952	0.698	9.892	15.501	10.583
2022-09-05 18:30	6409809	8.592	-140.960	15.437	1125.974	1377.582	0.695	8.160	15.437	10.558
2022-09-05 18:45	6410709	8.577	-140.100	15.375	1123.231	1376.222	0.694	8.137	15.375	10.431
2022-09-05 19:00	6411609	8.592	-140.874	15.293	1115.800	1369.754	0.691	15.675	15.293	10.327
2022-09-05 19:15	6412509	8.566	-139.399	15.206	1109.561	1364.881	0.688	9.116	15.206	10.253
2022-09-05 19:30	6413409	8.564	-139.213	15.089	1102.444	1359.856	0.685	10.720	15.089	9.960
2022-09-05 19:45	6414309	8.552	-138.495	14.983	1097.686	1357.389	0.684	8.248	14.983	9.884

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-05 20:00	6415209	8.568	-139.318	14.880	1092.857	1354.715	0.682	17.152	14.880	9.528
2022-09-05 20:15	6416109	8.516	-136.397	14.802	1087.407	1350.436	0.680	8.492	14.802	9.712
2022-09-05 20:30	6417009	8.495	-135.186	14.707	1083.057	1348.077	0.679	10.764	14.707	9.531
2022-09-05 20:45	6417909	8.497	-135.257	14.598	1077.254	1344.354	0.677	10.193	14.598	9.302
2022-09-05 21:00	6418809	8.494	-135.055	14.481	1061.385	1328.254	0.668	12.844	14.481	8.988
2022-09-05 21:15	6419709	8.459	-133.083	14.412	1060.171	1328.908	0.668	9.031	14.412	8.778
2022-09-05 21:30	6420609	8.440	-131.984	14.358	1061.648	1332.488	0.670	9.465	14.358	8.664
2022-09-05 21:45	6421509	8.433	-131.576	14.253	1052.831	1324.754	0.666	8.624	14.253	8.208
2022-09-05 22:00	6422409	8.476	-133.934	14.194	1048.679	1321.422	0.664	11.382	14.194	8.154
2022-09-05 22:15	6423309	8.418	-130.649	14.141	1048.359	1322.711	0.665	9.521	14.141	8.117
2022-09-05 22:30	6424209	8.393	-129.249	14.090	1046.124	1321.500	0.664	9.616	14.090	7.911
2022-09-05 22:45	6425109	8.389	-129.025	14.038	1042.797	1318.957	0.663	8.535	14.038	7.701
2022-09-05 23:00	6426009	8.400	-129.607	13.985	1033.498	1308.875	0.658	11.769	13.985	7.514
2022-09-05 23:15	6426909	8.391	-129.080	13.863	1028.940	1306.964	0.656	10.354	13.863	7.282
2022-09-05 23:30	6427809	8.382	-128.503	13.760	1022.578	1302.114	0.654	8.490	13.760	7.220
2022-09-05 23:45	6428709	8.378	-128.276	13.708	1022.033	1303.087	0.654	7.623	13.708	7.103
2022-09-06 0:00	6429609	8.402	-129.547	13.638	1015.990	1297.584	0.651	8.412	13.638	6.830
2022-09-06 0:15	6430509	8.352	-126.736	13.544	1006.255	1288.119	0.646	9.916	13.544	***6.407***
2022-09-06 0:30	6431409	8.332	-125.618	13.458	1003.719	1287.578	0.646	9.110	13.458	***6.351***
2022-09-06 0:45	6432309	8.322	-125.053	13.383	1001.541	1287.148	0.646	8.983	13.383	***6.048***
2022-09-06 1:00	6433209	8.334	-125.618	13.262	991.594	1278.153	0.641	9.243	13.262	***5.902***
2022-09-06 1:15	6434109	8.330	-125.430	13.274	996.700	1284.357	0.644	9.319	13.274	***5.889***
2022-09-06 1:30	6435009	8.344	-126.214	13.264	998.851	1287.427	0.646	7.484	13.264	***5.971***
2022-09-06 1:45	6435909	8.339	-125.880	13.230	999.878	1289.854	0.647	6.233	13.230	***6.248***
2022-09-06 2:00	6436809	8.374	-127.766	13.114	985.370	1274.780	0.639	11.253	13.114	***6.199***
2022-09-06 2:15	6437709	8.346	-126.238	13.067	992.405	1285.371	0.644	8.904	13.067	***5.929***
2022-09-06 2:30	6438609	8.333	-125.475	13.051	996.806	1291.569	0.648	8.063	13.051	***6.076***
2022-09-06 2:45	6439509	8.395	-128.942	13.062	1003.956	1300.475	0.652	8.690	13.062	***6.172***
2022-09-06 3:00	6440409	8.361	-126.982	12.946	987.528	1282.879	0.643	9.273	12.946	***6.439***
2022-09-06 3:15	6441309	8.319	-124.633	12.901	988.748	1285.924	0.645	9.033	12.901	***6.153***
2022-09-06 3:30	6442209	8.283	-122.654	12.824	989.771	1289.717	0.646	9.639	12.824	***5.908***
2022-09-06 3:45	6443109	8.305	-123.806	12.779	986.295	1286.617	0.645	9.348	12.779	***5.809***
2022-09-06 4:00	6444009	8.333	-125.327	12.728	981.058	1281.429	0.642	9.130	12.728	***5.657***
2022-09-06 4:15	6444909	8.280	-122.411	12.648	975.214	1276.323	0.639	10.884	12.648	***5.312***
2022-09-06 4:30	6445809	8.277	-122.173	12.538	969.226	1272.002	0.637	10.173	12.538	***5.158***
2022-09-06 4:45	6446709	8.272	-121.858	12.481	971.485	1276.782	0.639	7.712	12.481	***5.149***
2022-09-06 5:00	6447609	8.283	-122.447	12.422	959.133	1262.430	0.632	8.792	12.422	***4.873***
2022-09-06 5:15	6448509	8.259	-121.095	12.360	962.121	1268.315	0.635	7.747	12.360	***4.677***
2022-09-06 5:30	6449409	8.264	-121.396	12.311	964.317	1272.778	0.637	6.963	12.311	***4.534***
2022-09-06 5:45	6450309	8.277	-122.061	12.264	964.851	1274.998	0.638	6.553	12.264	***4.393***
2022-09-06 6:00	6451209	8.303	-123.458	12.210	958.269	1268.042	0.634	11.753	12.210	***4.251***
2022-09-06 6:15	6452109	8.247	-120.351	12.146	955.440	1266.334	0.633	6.924	12.146	***4.288***
2022-09-06 6:30	6453009	8.238	-119.865	12.093	955.615	1268.259	0.634	6.439	12.093	***4.138***
2022-09-06 6:45	6453909	8.233	-119.545	12.032	953.602	1267.580	0.634	7.892	12.032	***4.058***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-06 7:00	6454809	8.257	-120.823	11.984	941.751	1253.331	0.627	13.816	11.984	***4.093***
2022-09-06 7:15	6455709	8.218	-118.654	11.901	939.744	1253.320	0.626	13.018	11.901	***4.038***
2022-09-06 7:30	6456609	8.210	-118.217	11.815	935.709	1250.661	0.625	8.302	11.815	***3.951***
2022-09-06 7:45	6457509	8.206	-117.927	11.734	932.478	1248.940	0.624	7.498	11.734	***3.854***
2022-09-06 8:00	6458409	8.234	-119.481	11.680	922.602	1237.405	0.618	12.230	11.680	***3.754***
2022-09-06 8:15	6459309	8.183	-116.646	11.617	917.367	1232.370	0.615	7.105	11.617	***3.529***
2022-09-06 8:30	6460209	8.178	-116.353	11.593	918.304	1234.407	0.616	13.138	11.593	***3.701***
2022-09-06 8:45	6461109	8.174	-116.146	11.575	918.048	1234.630	0.616	9.181	11.575	***3.479***
2022-09-06 9:00	6462009	8.202	-117.664	11.583	916.057	1231.687	0.615	9.597	11.583	***3.529***
2022-09-06 9:15	6462909	8.189	-116.954	11.604	919.836	1236.122	0.617	9.097	11.604	***4.050***
2022-09-06 9:30	6463809	8.216	-118.461	11.633	923.702	1240.385	0.619	9.315	11.633	***4.152***
2022-09-06 9:45	6464709	8.221	-118.709	11.642	924.205	1240.774	0.620	8.872	11.642	***4.237***
2022-09-06 10:00	6465609	8.254	-120.537	11.640	923.035	1239.254	0.619	10.043	11.640	***4.276***
2022-09-06 10:15	6466509	8.213	-118.265	11.644	922.696	1238.688	0.619	8.124	11.644	***4.250***
2022-09-06 10:30	6467409	8.203	-117.776	11.668	924.788	1240.741	0.620	7.403	11.668	***4.147***
2022-09-06 10:45	6468309	8.177	-116.348	11.692	929.079	1245.708	0.622	7.922	11.692	***4.479***
2022-09-06 11:00	6469209	8.254	-120.544	11.715	930.227	1246.512	0.623	9.118	11.715	***4.353***
2022-09-06 11:15	6470109	8.223	-118.864	11.766	932.192	1247.538	0.623	8.380	11.766	***5.139***
2022-09-06 11:30	6471009	8.244	-120.094	11.855	949.228	1267.448	0.634	10.307	11.855	***4.906***
2022-09-06 11:45	6471909	8.321	-124.378	11.969	971.325	1293.180	0.647	9.019	11.969	***5.027***
2022-09-06 12:00	6472809	8.435	-130.701	12.125	987.584	1309.637	0.656	9.454	12.125	***5.608***
2022-09-06 12:15	6473709	8.441	-131.116	12.295	1026.555	1355.493	0.680	7.642	12.295	***6.427***
2022-09-06 12:30	6474609	8.524	-135.739	12.415	1036.330	1364.277	0.685	7.931	12.415	7.548
2022-09-06 12:45	6475509	8.537	-136.461	12.495	1039.322	1365.471	0.686	6.709	12.495	7.795
2022-09-06 13:00	6476409	8.560	-137.773	12.593	1046.370	1371.333	0.689	7.221	12.593	7.984
2022-09-06 13:15	6477309	8.541	-136.762	12.653	1047.239	1370.437	0.689	6.727	12.653	8.655
2022-09-06 13:30	6478209	8.556	-137.613	12.739	1051.563	1373.138	0.690	7.774	12.739	8.471
2022-09-06 13:45	6479109	8.589	-139.503	12.787	1057.855	1379.709	0.694	7.527	12.787	8.539
2022-09-06 14:00	6480009	8.628	-141.633	12.844	1061.162	1382.052	0.695	7.833	12.844	8.654
2022-09-06 14:15	6480909	8.571	-138.552	12.893	1061.781	1381.164	0.694	6.103	12.893	8.869
2022-09-06 14:30	6481809	8.566	-138.309	12.977	1064.974	1382.442	0.695	5.808	12.977	8.844
2022-09-06 14:45	6482709	8.571	-138.643	13.058	1067.412	1382.821	0.695	5.548	13.058	9.225
2022-09-06 15:00	6483609	8.612	-140.955	13.152	1071.943	1385.466	0.697	6.886	13.152	9.526
2022-09-06 15:15	6484509	8.633	-142.088	13.185	1072.335	1384.832	0.697	7.559	13.185	9.737
2022-09-06 15:30	6485409	8.597	-140.109	13.223	1073.188	1384.637	0.697	5.880	13.223	10.051
2022-09-06 15:45	6486309	8.601	-140.414	13.298	1074.742	1384.092	0.696	6.174	13.298	10.324
2022-09-06 16:00	6487209	8.670	-144.250	13.403	1076.915	1383.311	0.696	7.836	13.403	10.408
2022-09-06 16:15	6488109	8.638	-142.517	13.511	1077.807	1380.828	0.695	6.379	13.511	10.826
2022-09-06 16:30	6489009	8.622	-141.740	13.645	1081.218	1380.647	0.695	6.122	13.645	11.108
2022-09-06 16:45	6489909	8.633	-142.386	13.770	1082.726	1378.394	0.694	6.254	13.770	11.069
2022-09-06 17:00	6490809	8.685	-145.352	13.968	1086.620	1376.712	0.693	7.216	13.968	11.375
2022-09-06 17:15	6491709	8.634	-142.555	14.033	1086.920	1374.932	0.692	6.227	14.033	11.228
2022-09-06 17:30	6492609	8.635	-142.660	14.130	1088.974	1374.300	0.692	6.716	14.130	11.006
2022-09-06 17:45	6493509	8.618	-141.814	14.233	1091.533	1374.109	0.692	5.092	14.233	10.838

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-06 18:00	6494409	8.664	-144.439	14.402	1096.560	1374.848	0.693	8.136	14.402	11.038
2022-09-06 18:15	6495309	8.630	-142.546	14.465	1097.509	1373.966	0.692	5.306	14.465	10.920
2022-09-06 18:30	6496209	8.627	-142.460	14.563	1099.994	1373.874	0.692	5.465	14.563	10.992
2022-09-06 18:45	6497109	8.600	-141.039	14.713	1104.634	1374.734	0.693	5.457	14.713	11.797
2022-09-06 19:00	6498009	8.617	-142.059	14.866	1105.665	1371.027	0.691	6.343	14.866	11.804
2022-09-06 19:15	6498909	8.596	-140.927	14.913	1107.365	1371.630	0.691	5.413	14.913	12.012
2022-09-06 19:30	6499809	8.592	-140.700	14.955	1109.296	1372.658	0.692	5.338	14.955	12.141
2022-09-06 19:45	6500709	8.570	-139.506	14.961	1110.104	1373.457	0.692	4.677	14.961	11.835
2022-09-06 20:00	6501609	8.594	-140.791	14.956	1108.631	1371.783	0.691	8.570	14.956	10.943
2022-09-06 20:15	6502509	8.553	-138.505	14.906	1105.576	1369.642	0.690	7.620	14.906	10.013
2022-09-06 20:30	6503409	8.555	-138.605	14.877	1104.971	1369.842	0.690	5.642	14.877	10.165
2022-09-06 20:45	6504309	8.544	-137.968	14.851	1104.069	1369.541	0.690	12.589	14.851	10.562
2022-09-06 21:00	6505209	8.565	-139.134	14.812	1098.675	1364.108	0.687	6.509	14.812	10.943
2022-09-06 21:15	6506109	8.565	-139.117	14.721	1096.215	1364.007	0.687	7.000	14.721	11.106
2022-09-06 21:30	6507009	8.566	-139.122	14.698	1095.786	1364.234	0.687	6.484	14.698	11.351
2022-09-06 21:45	6507909	8.521	-136.626	14.608	1091.174	1361.398	0.686	8.857	14.608	11.320
2022-09-06 22:00	6508809	8.641	-143.204	14.554	1088.895	1360.305	0.685	7.840	14.554	11.216
2022-09-06 22:15	6509709	8.567	-139.077	14.500	1086.139	1358.623	0.684	11.162	14.500	11.158
2022-09-06 22:30	6510609	8.585	-140.014	14.386	1085.435	1361.422	0.686	8.329	14.386	10.813
2022-09-06 22:45	6511509	8.586	-139.983	14.210	1074.566	1353.500	0.681	14.757	14.210	10.630
2022-09-06 23:00	6512409	8.573	-139.232	14.121	1063.862	1342.896	0.676	12.188	14.121	10.243
2022-09-06 23:15	6513309	8.564	-138.695	14.065	1065.326	1346.552	0.677	10.180	14.065	9.970
2022-09-06 23:30	6514209	8.586	-139.906	13.988	1064.594	1348.140	0.678	10.325	13.988	9.814
2022-09-06 23:45	6515109	8.570	-138.996	13.943	1061.850	1346.152	0.677	7.954	13.943	9.850
2022-09-07 0:00	6516009	8.581	-139.599	13.895	1061.536	1347.302	0.678	9.943	13.895	9.327
2022-09-07 0:15	6516909	8.569	-138.881	13.861	1063.806	1351.307	0.680	8.394	13.861	9.427
2022-09-07 0:30	6517809	8.548	-137.737	13.837	1064.246	1352.648	0.680	9.099	13.837	9.470
2022-09-07 0:45	6518709	8.543	-137.413	13.762	1059.269	1348.792	0.678	9.430	13.762	9.283
2022-09-07 1:00	6519609	8.578	-139.356	13.721	1058.653	1349.341	0.679	10.828	13.721	9.191
2022-09-07 1:15	6520509	8.535	-136.948	13.690	1056.974	1348.224	0.678	8.545	13.690	9.233
2022-09-07 1:30	6521409	8.505	-135.286	13.673	1055.990	1347.519	0.678	7.342	13.673	8.978
2022-09-07 1:45	6522309	8.502	-135.119	13.662	1055.337	1347.052	0.677	7.582	13.662	8.733
2022-09-07 2:00	6523209	8.533	-136.802	13.641	1055.108	1347.439	0.677	18.096	13.641	8.239
2022-09-07 2:15	6524109	8.500	-134.943	13.593	1051.556	1344.496	0.676	10.365	13.593	8.443
2022-09-07 2:30	6525009	8.510	-135.517	13.580	1057.868	1352.979	0.680	10.466	13.580	8.388
2022-09-07 2:45	6525909	8.515	-135.801	13.573	1062.798	1359.523	0.684	12.584	13.573	8.701
2022-09-07 3:00	6526809	8.549	-137.632	13.566	1063.502	1360.663	0.684	13.240	13.566	8.857
2022-09-07 3:15	6527709	8.523	-136.187	13.555	1064.895	1362.794	0.685	8.599	13.555	8.809
2022-09-07 3:30	6528610	8.521	-136.080	13.550	1066.583	1365.118	0.687	8.630	13.550	8.803
2022-09-07 3:45	6529510	8.548	-137.582	13.546	1067.253	1366.113	0.687	9.519	13.546	8.976
2022-09-07 4:00	6530410	8.585	-139.639	13.524	1065.961	1365.213	0.687	16.208	13.524	8.775
2022-09-07 4:15	6531310	8.521	-136.044	13.497	1063.257	1362.652	0.685	10.541	13.497	8.465
2022-09-07 4:30	6532210	8.517	-135.841	13.481	1064.304	1364.516	0.686	10.093	13.481	8.321
2022-09-07 4:45	6533110	8.527	-136.361	13.466	1065.241	1366.217	0.687	9.268	13.466	8.387

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-07 5:00	6534010	8.547	-137.467	13.451	1066.731	1368.637	0.688	11.611	13.451	8.395
2022-09-07 5:15	6534910	8.532	-136.647	13.443	1066.938	1369.172	0.689	10.709	13.443	8.203
2022-09-07 5:30	6535810	8.536	-136.878	13.435	1067.214	1369.793	0.689	9.854	13.435	8.324
2022-09-07 5:45	6536710	8.538	-136.993	13.420	1066.851	1369.818	0.689	10.636	13.420	8.367
2022-09-07 6:00	6537610	8.558	-138.080	13.394	1063.327	1366.174	0.687	16.223	13.394	8.343
2022-09-07 6:15	6538510	8.498	-134.747	13.376	1060.962	1363.744	0.686	12.496	13.376	7.947
2022-09-07 6:30	6539410	8.508	-135.291	13.332	1056.509	1359.471	0.684	10.475	13.332	7.833
2022-09-07 6:45	6540310	8.471	-133.169	13.247	1052.902	1357.676	0.682	7.181	13.247	7.686
2022-09-07 7:00	6541210	8.481	-133.724	13.218	1048.197	1352.580	0.680	12.383	13.218	7.415
2022-09-07 7:15	6542110	8.463	-132.723	13.151	1043.449	1348.677	0.678	9.594	13.151	7.238
2022-09-07 7:30	6543010	8.444	-131.633	13.100	1042.555	1349.204	0.678	8.675	13.100	7.055
2022-09-07 7:45	6543910	8.434	-131.066	13.061	1034.375	1339.930	0.673	7.731	13.061	6.869
2022-09-07 8:00	6544810	8.444	-131.593	13.033	1029.528	1334.577	0.670	16.719	13.033	6.635
2022-09-07 8:15	6545710	8.401	-129.218	12.975	1026.119	1332.068	0.669	9.350	12.975	***6.364***
2022-09-07 8:30	6546610	8.394	-128.787	12.905	1024.392	1332.130	0.669	9.118	12.905	***6.209***
2022-09-07 8:45	6547510	8.380	-127.993	12.867	1022.237	1330.592	0.668	8.145	12.867	***6.072***
2022-09-07 9:00	6548410	8.394	-128.777	12.827	1010.980	1317.248	0.661	7.921	12.827	***5.932***
2022-09-07 9:15	6549310	8.352	-126.438	12.762	1009.897	1317.957	0.661	11.094	12.762	***5.777***
2022-09-07 9:30	6550210	8.343	-125.921	12.728	1010.434	1319.769	0.662	11.646	12.728	***5.675***
2022-09-07 9:45	6551110	8.322	-124.733	12.746	1010.659	1319.488	0.662	10.003	12.746	6.623
2022-09-07 10:00	6552010	8.483	-133.624	12.755	1017.424	1328.026	0.666	24.065	12.755	6.962
2022-09-07 10:15	6552910	8.458	-132.234	12.744	1018.632	1329.953	0.667	10.810	12.744	7.596
2022-09-07 10:30	6553810	8.505	-134.830	12.715	1022.948	1336.561	0.671	10.851	12.715	7.900
2022-09-07 10:45	6554710	8.539	-136.693	12.703	1028.068	1343.664	0.675	10.224	12.703	8.136
2022-09-07 11:00	6555610	8.575	-138.626	12.662	1027.104	1343.785	0.675	15.558	12.662	8.327
2022-09-07 11:15	6556510	8.541	-136.764	12.656	1027.870	1344.983	0.675	8.980	12.656	8.474
2022-09-07 11:30	6557410	8.550	-137.227	12.604	1024.627	1342.477	0.674	8.537	12.604	8.532
2022-09-07 11:45	6558310	8.551	-137.293	12.582	1024.155	1342.596	0.674	8.054	12.582	8.612
2022-09-07 12:00	6559210	8.594	-139.666	12.635	1027.889	1345.715	0.676	14.266	12.635	8.855
2022-09-07 12:15	6560110	8.568	-138.252	12.686	1029.431	1346.023	0.676	7.912	12.686	8.851
2022-09-07 12:30	6561010	8.574	-138.600	12.725	1031.277	1347.117	0.676	7.414	12.725	8.920
2022-09-07 12:45	6561910	8.590	-139.511	12.746	1032.282	1347.732	0.677	8.118	12.746	9.060
2022-09-07 13:00	6562810	8.617	-141.044	12.796	1034.082	1348.402	0.677	11.263	12.796	9.206
2022-09-07 13:15	6563710	8.590	-139.592	12.862	1035.203	1347.621	0.677	8.787	12.862	9.396
2022-09-07 13:30	6564610	8.603	-140.288	12.881	1036.084	1348.147	0.677	9.512	12.881	9.449
2022-09-07 13:45	6565510	8.595	-139.873	12.892	1036.257	1348.005	0.677	7.444	12.892	9.517
2022-09-07 14:00	6566410	8.634	-142.057	12.982	1039.062	1348.645	0.677	14.104	12.982	9.687
2022-09-07 14:15	6567310	8.609	-140.731	13.110	1042.449	1348.765	0.678	7.831	13.110	9.710
2022-09-07 14:30	6568210	8.617	-141.249	13.237	1045.575	1348.550	0.678	7.432	13.237	9.978
2022-09-07 14:45	6569110	8.627	-141.835	13.325	1049.472	1350.649	0.679	8.674	13.325	10.003
2022-09-07 15:00	6570010	8.661	-143.814	13.460	1053.246	1351.018	0.679	10.480	13.460	10.245
2022-09-07 15:15	6570910	8.640	-142.694	13.559	1054.719	1349.645	0.679	7.112	13.559	10.478
2022-09-07 15:30	6571810	8.636	-142.455	13.606	1055.682	1349.344	0.678	7.477	13.606	10.511
2022-09-07 15:45	6572710	8.636	-142.519	13.676	1056.515	1348.088	0.678	10.280	13.676	10.555

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-07 16:00	6573610	8.674	-144.646	13.723	1058.512	1349.090	0.678	18.388	13.723	10.557
2022-09-07 16:15	6574510	8.658	-143.766	13.785	1059.200	1347.938	0.678	8.740	13.785	10.655
2022-09-07 16:30	6575410	8.660	-143.902	13.818	1060.488	1348.491	0.678	7.392	13.818	10.681
2022-09-07 16:45	6576310	8.651	-143.435	13.869	1061.790	1348.479	0.678	7.539	13.869	10.724
2022-09-07 17:00	6577210	8.680	-145.042	13.919	1062.833	1348.156	0.678	12.178	13.919	10.804
2022-09-07 17:15	6578110	8.639	-142.825	13.943	1062.712	1347.240	0.678	7.346	13.943	10.833
2022-09-07 17:30	6579010	8.623	-141.914	13.970	1063.128	1346.872	0.678	7.263	13.970	10.838
2022-09-07 17:45	6579910	8.617	-141.604	13.994	1063.093	1346.044	0.677	7.601	13.994	10.857
2022-09-07 18:00	6580810	8.666	-144.312	14.009	1063.187	1345.693	0.677	12.930	14.009	10.767
2022-09-07 18:15	6581710	8.632	-142.455	14.041	1063.465	1344.998	0.677	7.764	14.041	10.749
2022-09-07 18:30	6582610	8.611	-141.320	14.042	1063.794	1345.367	0.677	8.311	14.042	10.757
2022-09-07 18:45	6583510	8.641	-142.987	14.024	1063.389	1345.467	0.677	7.949	14.024	10.408
2022-09-07 19:00	6584410	8.663	-144.162	14.004	1063.205	1345.862	0.677	10.370	14.004	10.476
2022-09-07 19:15	6585310	8.624	-142.002	13.989	1061.573	1344.291	0.676	6.793	13.989	10.577
2022-09-07 19:30	6586210	8.618	-141.678	13.979	1060.808	1343.649	0.676	6.802	13.979	10.413
2022-09-07 19:45	6587110	8.600	-140.660	13.951	1059.646	1343.069	0.675	8.136	13.951	10.190
2022-09-07 20:00	6588010	8.663	-144.155	13.930	1058.888	1342.815	0.675	18.385	13.930	10.251
2022-09-07 20:15	6588910	8.637	-142.701	13.904	1057.610	1342.015	0.675	8.825	13.904	10.349
2022-09-07 20:30	6589810	8.639	-142.779	13.862	1054.936	1339.996	0.674	10.571	13.862	10.222
2022-09-07 20:45	6590710	8.587	-139.899	13.824	1052.744	1338.455	0.673	14.448	13.824	10.151
2022-09-07 21:00	6591610	8.612	-141.232	13.767	1049.691	1336.420	0.672	8.963	13.767	9.932
2022-09-07 21:15	6592510	8.607	-140.908	13.709	1046.863	1334.703	0.671	11.825	13.709	9.999
2022-09-07 21:30	6593410	8.602	-140.648	13.663	1046.128	1335.248	0.671	6.758	13.663	9.866
2022-09-07 21:45	6594310	8.586	-139.704	13.601	1042.118	1332.167	0.669	8.826	13.601	9.557
2022-09-07 22:00	6595210	8.610	-141.003	13.543	1036.107	1326.359	0.666	10.898	13.543	9.182
2022-09-07 22:15	6596110	8.555	-137.956	13.502	1034.468	1325.576	0.666	9.393	13.502	9.143
2022-09-07 22:30	6597010	8.534	-136.752	13.472	1033.913	1325.849	0.666	8.729	13.472	9.067
2022-09-07 22:45	6597910	8.511	-135.510	13.429	1033.690	1326.958	0.667	9.750	13.429	8.988
2022-09-07 23:00	6598810	8.532	-136.628	13.355	1025.268	1318.530	0.662	12.135	13.355	8.731
2022-09-07 23:15	6599710	8.522	-136.065	13.323	1025.353	1319.669	0.663	10.045	13.323	8.486
2022-09-07 23:30	6600610	8.508	-135.250	13.287	1023.985	1319.093	0.662	9.511	13.287	8.386
2022-09-07 23:45	6601510	8.493	-134.389	13.252	1022.078	1317.754	0.662	9.501	13.252	8.272
2022-09-08 0:00	6602410	8.530	-136.435	13.195	1017.401	1313.572	0.659	10.164	13.195	7.975
2022-09-08 0:15	6603310	8.488	-134.077	13.102	1012.527	1310.308	0.657	10.908	13.102	8.011
2022-09-08 0:30	6604210	8.468	-132.957	13.054	1009.174	1307.521	0.656	10.768	13.054	7.994
2022-09-08 0:45	6605110	8.453	-132.084	13.003	1007.264	1306.685	0.655	11.026	13.003	7.779
2022-09-08 1:00	6606010	8.492	-134.239	12.965	1006.961	1307.520	0.656	12.025	12.965	7.640
2022-09-08 1:15	6606910	8.456	-132.227	12.899	1004.061	1305.874	0.655	10.549	12.899	7.542
2022-09-08 1:30	6607810	8.437	-131.128	12.854	1002.133	1304.839	0.654	10.111	12.854	7.349
2022-09-08 1:45	6608710	8.427	-130.541	12.798	998.422	1301.828	0.653	10.210	12.798	7.195
2022-09-08 2:00	6609610	8.534	-136.364	12.621	992.505	1299.830	0.652	11.824	12.621	7.150
2022-09-08 2:15	6610510	8.491	-133.977	12.618	993.891	1301.750	0.653	9.098	12.618	7.355
2022-09-08 2:30	6611410	8.480	-133.371	12.612	994.528	1302.789	0.653	7.938	12.612	7.501
2022-09-08 2:45	6612310	8.464	-132.525	12.590	993.623	1302.320	0.653	7.533	12.590	7.451

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-08 3:00	6613210	8.465	-132.508	12.532	987.194	1295.752	0.649	10.596	12.532	7.171
2022-09-08 3:15	6614110	8.435	-130.863	12.495	986.625	1296.222	0.649	10.003	12.495	6.940
2022-09-08 3:30	6615010	8.420	-130.029	12.467	984.760	1294.682	0.649	10.420	12.467	6.998
2022-09-08 3:45	6615910	8.410	-129.442	12.448	984.088	1294.424	0.648	10.066	12.448	6.793
2022-09-08 4:00	6616810	8.438	-130.999	12.421	981.948	1292.486	0.647	11.932	12.421	***6.493***
2022-09-08 4:15	6617710	8.398	-128.748	12.374	980.456	1292.036	0.647	11.207	12.374	***6.294***
2022-09-08 4:30	6618610	8.386	-128.093	12.318	976.715	1288.936	0.645	8.642	12.318	***6.190***
2022-09-08 4:45	6619510	8.370	-127.175	12.283	977.692	1291.369	0.647	9.253	12.283	***5.916***
2022-09-08 5:00	6620410	8.381	-127.769	12.261	974.445	1287.772	0.645	8.461	12.261	***5.589***
2022-09-08 5:15	6621310	8.354	-126.300	12.222	974.441	1289.053	0.645	6.801	12.222	***5.584***
2022-09-08 5:30	6622210	8.335	-125.241	12.185	974.724	1290.632	0.646	6.322	12.185	***5.380***
2022-09-08 5:45	6623110	8.349	-125.968	12.137	973.739	1290.892	0.646	4.810	12.137	***5.181***
2022-09-08 6:00	6624010	8.398	-128.641	12.126	971.451	1288.212	0.645	15.737	12.126	***5.171***
2022-09-08 6:15	6624910	8.360	-126.553	12.097	969.476	1286.552	0.644	7.232	12.097	***5.148***
2022-09-08 6:30	6625810	8.357	-126.393	12.085	969.803	1287.373	0.644	6.386	12.085	***4.918***
2022-09-08 6:45	6626710	8.357	-126.388	12.081	964.875	1280.958	0.641	8.276	12.081	***5.228***
2022-09-08 7:00	6627610	8.374	-127.330	12.070	959.338	1273.958	0.637	11.368	12.070	***5.449***
2022-09-08 7:15	6628510	8.336	-125.229	12.060	958.870	1273.652	0.637	8.068	12.060	***5.212***
2022-09-08 7:30	6629410	8.326	-124.657	12.031	958.966	1274.722	0.638	6.497	12.031	***5.023***
2022-09-08 7:45	6630310	8.311	-123.861	12.038	956.354	1271.015	0.636	10.566	12.038	***5.143***
2022-09-08 8:00	6631210	8.379	-127.573	12.036	956.611	1271.445	0.636	20.615	12.036	***5.365***
2022-09-08 8:15	6632110	8.335	-125.129	11.999	953.675	1268.717	0.635	8.701	11.999	***5.304***
2022-09-08 8:30	6633010	8.326	-124.629	11.963	953.111	1269.124	0.635	7.286	11.963	***5.131***
2022-09-08 8:45	6633910	8.316	-124.063	11.937	952.231	1268.817	0.635	8.130	11.937	***5.021***
2022-09-08 9:00	6634810	8.330	-124.841	11.933	947.295	1262.356	0.631	10.281	11.933	***4.749***
2022-09-08 9:15	6635710	8.287	-122.454	11.918	946.764	1262.136	0.631	7.064	11.918	***4.733***
2022-09-08 9:30	6636610	8.280	-122.099	11.925	947.252	1262.567	0.631	6.412	11.925	***4.561***
2022-09-08 9:45	6637510	8.265	-121.281	11.961	952.250	1268.057	0.634	12.421	11.961	***4.403***
2022-09-08 10:00	6638410	8.384	-127.850	12.014	959.812	1276.399	0.639	21.465	12.014	***4.760***
2022-09-08 10:15	6639310	8.421	-129.895	12.104	977.536	1297.022	0.649	10.178	12.104	***5.935***
2022-09-08 10:30	6640210	8.476	-132.978	12.192	986.396	1305.835	0.654	9.429	12.192	7.380
2022-09-08 10:45	6641110	8.503	-134.468	12.259	992.140	1311.227	0.657	7.618	12.259	7.540
2022-09-08 11:00	6642010	8.563	-137.799	12.315	1003.468	1324.334	0.664	9.770	12.315	7.741
2022-09-08 11:15	6642910	8.608	-140.331	12.342	1011.219	1333.662	0.669	7.656	12.342	8.299
2022-09-08 11:30	6643810	8.620	-140.996	12.366	1014.672	1337.415	0.671	7.214	12.366	8.454
2022-09-08 11:45	6644710	8.603	-140.040	12.398	1016.487	1338.696	0.672	8.031	12.398	8.514
2022-09-08 12:00	6645610	8.652	-142.777	12.441	1018.882	1340.414	0.673	14.710	12.441	8.629
2022-09-08 12:15	6646510	8.615	-140.746	12.466	1018.962	1339.692	0.672	6.966	12.466	9.049
2022-09-08 12:30	6647410	8.621	-141.082	12.496	1019.102	1338.847	0.672	8.182	12.496	8.742
2022-09-08 12:45	6648310	8.611	-140.538	12.521	1018.854	1337.688	0.671	7.637	12.521	8.960
2022-09-08 13:00	6649210	8.641	-142.219	12.549	1018.551	1336.358	0.671	10.988	12.549	8.682
2022-09-08 13:15	6650110	8.621	-141.160	12.571	1018.795	1335.955	0.670	8.195	12.571	9.187
2022-09-08 13:30	6651010	8.601	-140.061	12.593	1019.579	1336.238	0.671	7.313	12.593	9.117
2022-09-08 13:45	6651910	8.617	-140.929	12.623	1020.509	1336.438	0.671	7.649	12.623	9.275

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-08 14:00	6652810	8.674	-144.103	12.654	1022.336	1337.809	0.671	16.789	12.654	8.915
2022-09-08 14:15	6653710	8.639	-142.179	12.695	1023.157	1337.510	0.671	7.298	12.695	9.572
2022-09-08 14:30	6654610	8.646	-142.608	12.735	1024.373	1337.749	0.671	7.075	12.735	9.716
2022-09-08 14:45	6655510	8.635	-142.002	12.784	1025.407	1337.490	0.671	8.184	12.784	9.659
2022-09-08 15:00	6656410	8.671	-144.014	12.827	1026.959	1338.075	0.672	8.933	12.827	9.775
2022-09-08 15:15	6657310	8.649	-142.810	12.883	1027.392	1336.781	0.671	8.843	12.883	10.120
2022-09-08 15:30	6658210	8.624	-141.537	12.996	1030.189	1336.653	0.671	7.728	12.996	10.179
2022-09-08 15:45	6659110	8.622	-141.456	13.090	1032.040	1335.946	0.671	7.471	13.090	10.317
2022-09-08 16:00	6660010	8.702	-145.929	13.215	1035.815	1336.702	0.671	11.956	13.215	10.682
2022-09-08 16:15	6660910	8.661	-143.676	13.291	1036.670	1335.296	0.671	7.206	13.291	10.799
2022-09-08 16:30	6661810	8.650	-143.149	13.354	1038.113	1335.076	0.671	7.000	13.354	10.727
2022-09-08 16:45	6662710	8.658	-143.602	13.443	1040.224	1334.894	0.671	7.079	13.443	10.637
2022-09-08 17:00	6663610	8.695	-145.721	13.546	1042.490	1334.435	0.671	7.924	13.546	10.800
2022-09-08 17:15	6664510	8.685	-145.173	13.618	1043.560	1333.432	0.670	6.220	13.618	10.943
2022-09-08 17:30	6665410	8.676	-144.751	13.712	1045.310	1332.634	0.670	5.724	13.712	10.984
2022-09-08 17:45	6666310	8.668	-144.324	13.776	1045.940	1331.342	0.669	5.510	13.776	10.899
2022-09-08 18:00	6667210	8.680	-145.030	13.827	1045.997	1329.763	0.668	6.293	13.827	10.600
2022-09-08 18:15	6668110	8.651	-143.416	13.850	1045.826	1328.810	0.668	5.600	13.850	10.609
2022-09-08 18:30	6669010	8.642	-142.951	13.866	1045.977	1328.479	0.668	5.530	13.866	10.667
2022-09-08 18:45	6669910	8.632	-142.379	13.881	1046.221	1328.324	0.668	4.317	13.881	10.545
2022-09-08 19:00	6670810	8.638	-142.729	13.891	1044.504	1325.809	0.666	6.672	13.891	10.277
2022-09-08 19:15	6671710	8.615	-141.444	13.893	1043.862	1324.949	0.666	4.511	13.893	10.309
2022-09-08 19:30	6672610	8.602	-140.736	13.898	1044.240	1325.272	0.666	4.981	13.898	10.117
2022-09-08 19:45	6673510	8.579	-139.449	13.905	1044.701	1325.604	0.666	5.729	13.905	10.063
2022-09-08 20:00	6674410	8.608	-141.096	13.910	1045.432	1326.371	0.667	8.524	13.910	10.020
2022-09-08 20:15	6675310	8.613	-141.366	13.887	1042.979	1324.003	0.665	8.178	13.887	10.084
2022-09-08 20:30	6676210	8.611	-141.211	13.827	1039.179	1321.096	0.664	9.340	13.827	10.276
2022-09-08 20:45	6677110	8.640	-142.751	13.715	1041.058	1327.110	0.667	11.176	13.715	10.386
2022-09-08 21:00	6678010	8.685	-145.199	13.636	1041.706	1330.480	0.669	9.960	13.636	10.514
2022-09-08 21:15	6678910	8.658	-143.707	13.618	1041.927	1331.361	0.669	7.262	13.618	10.487
2022-09-08 21:30	6679810	8.637	-142.558	13.617	1042.229	1331.785	0.669	6.736	13.617	10.451
2022-09-08 21:45	6680710	8.586	-139.725	13.605	1041.874	1331.724	0.669	6.065	13.605	10.398
2022-09-08 22:00	6681610	8.640	-142.653	13.562	1036.497	1326.247	0.666	13.362	13.562	10.220
2022-09-08 22:15	6682510	8.607	-140.827	13.493	1033.268	1324.325	0.665	8.084	13.493	9.957
2022-09-08 22:30	6683410	8.599	-140.367	13.461	1032.144	1323.920	0.665	5.564	13.461	9.656
2022-09-08 22:45	6684310	8.579	-139.260	13.446	1029.893	1321.521	0.664	5.718	13.446	9.589
2022-09-08 23:00	6685210	8.587	-139.697	13.427	1024.385	1315.089	0.660	8.847	13.427	9.411
2022-09-08 23:15	6686110	8.538	-136.971	13.393	1024.298	1316.049	0.661	7.390	13.393	9.112
2022-09-08 23:30	6687010	8.533	-136.647	13.361	1022.949	1315.345	0.660	9.038	13.361	8.877
2022-09-08 23:45	6687910	8.530	-136.497	13.330	1020.648	1313.406	0.659	10.976	13.330	8.899
2022-09-09 0:00	6688810	8.548	-137.486	13.314	1018.572	1311.234	0.658	10.064	13.314	8.754
2022-09-09 0:15	6689710	8.508	-135.276	13.295	1016.975	1309.801	0.657	7.878	13.295	8.466
2022-09-09 0:30	6690610	8.503	-134.969	13.274	1016.145	1309.407	0.657	10.589	13.274	8.303
2022-09-09 0:45	6691510	8.481	-133.765	13.255	1016.181	1310.065	0.658	10.204	13.255	8.187

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-09 1:00	6692410	8.507	-135.167	13.232	1011.356	1304.585	0.655	7.838	13.232	8.073
2022-09-09 1:15	6693310	8.497	-134.594	13.207	1012.138	1306.402	0.656	7.296	13.207	8.159
2022-09-09 1:30	6694210	8.467	-132.928	13.164	1013.070	1308.989	0.657	4.795	13.164	7.831
2022-09-09 1:45	6695110	8.486	-133.958	13.126	1011.219	1307.834	0.656	6.517	13.126	7.758
2022-09-09 2:00	6696010	8.501	-134.757	13.087	1005.807	1302.077	0.653	9.126	13.087	7.878
2022-09-09 2:15	6696910	8.455	-132.198	13.015	999.737	1296.531	0.650	9.989	13.015	7.592
2022-09-09 2:30	6697810	8.440	-131.328	12.940	996.220	1294.368	0.649	97.174	12.940	7.413
2022-09-09 2:45	6698710	8.438	-131.214	12.866	989.167	1287.575	0.645	9.738	12.866	7.283
2022-09-09 3:00	6699610	8.429	-130.656	12.798	980.697	1278.726	0.641	9.927	12.798	7.301
2022-09-09 3:15	6700510	8.411	-129.664	12.735	980.271	1280.170	0.641	9.885	12.735	7.124
2022-09-09 3:30	6701411	8.401	-129.085	12.664	977.993	1279.448	0.641	8.334	12.664	7.052
2022-09-09 3:45	6702311	8.383	-128.043	12.599	973.010	1275.009	0.639	99.916	12.599	7.005
2022-09-09 4:00	6703211	8.428	-130.525	12.557	970.482	1273.025	0.637	15.490	12.557	6.659
2022-09-09 4:15	6704111	8.382	-127.940	12.436	958.516	1261.153	0.631	10.722	12.436	6.611
2022-09-09 4:30	6705011	8.362	-126.805	12.349	951.717	1254.942	0.628	10.328	12.349	***6.489***
2022-09-09 4:45	6705911	8.338	-125.403	12.252	947.073	1251.892	0.626	9.745	12.252	***6.299***
2022-09-09 5:00	6706811	8.349	-125.997	12.155	935.148	1239.160	0.619	13.141	12.155	***6.180***
2022-09-09 5:15	6707711	8.319	-124.311	12.075	945.068	1254.855	0.627	12.770	12.075	***5.845***
2022-09-09 5:30	6708611	8.322	-124.416	12.005	934.829	1243.472	0.621	11.715	12.005	***5.662***
2022-09-09 5:45	6709511	8.306	-123.532	11.941	930.480	1239.699	0.619	19.429	11.941	***5.653***
2022-09-09 6:00	6710411	8.327	-124.624	11.853	920.894	1229.688	0.614	18.642	11.853	***5.559***
2022-09-09 6:15	6711311	8.276	-121.765	11.746	914.054	1223.896	0.611	13.290	11.746	***5.219***
2022-09-09 6:30	6712211	8.263	-121.071	11.675	910.325	1221.114	0.609	10.063	11.675	***5.204***
2022-09-09 6:45	6713111	8.253	-120.468	11.601	911.533	1225.052	0.611	9.228	11.601	***5.072***
2022-09-09 7:00	6714011	8.277	-121.744	11.506	892.958	1203.027	0.600	8.925	11.506	***4.892***
2022-09-09 7:15	6714911	8.232	-119.252	11.400	893.640	1207.218	0.602	9.243	11.400	***4.847***
2022-09-09 7:30	6715811	8.224	-118.783	11.328	891.733	1206.898	0.602	8.325	11.328	***4.822***
2022-09-09 7:45	6716711	8.213	-118.127	11.231	883.093	1198.216	0.597	8.076	11.231	***4.711***
2022-09-09 8:00	6717611	8.228	-118.921	11.121	876.127	1192.142	0.594	24.339	11.121	***4.404***
2022-09-09 8:15	6718511	8.183	-116.382	11.040	873.160	1190.617	0.593	9.209	11.040	***4.150***
2022-09-09 8:30	6719411	8.178	-116.110	10.976	872.101	1191.151	0.593	8.096	10.976	***4.134***
2022-09-09 8:45	6720311	8.177	-116.045	10.925	871.941	1192.546	0.594	8.521	10.925	***4.176***
2022-09-09 9:00	6721211	8.204	-117.466	10.880	863.861	1182.878	0.589	8.031	10.880	***3.990***
2022-09-09 9:15	6722111	8.165	-115.328	10.840	866.304	1187.470	0.591	7.772	10.840	***3.933***
2022-09-09 9:30	6723011	8.164	-115.244	10.788	866.255	1189.002	0.592	7.674	10.788	***4.004***
2022-09-09 9:45	6723911	8.160	-115.001	10.757	861.898	1183.983	0.589	8.107	10.757	***3.977***
2022-09-09 10:00	6724811	8.185	-116.382	10.735	853.894	1173.687	0.584	7.004	10.735	***4.050***
2022-09-09 10:15	6725711	8.140	-113.907	10.712	852.901	1173.007	0.583	6.892	10.712	***3.869***
2022-09-09 10:30	6726611	8.136	-113.695	10.710	854.636	1175.475	0.585	5.926	10.710	***3.843***
2022-09-09 10:45	6727511	8.130	-113.373	10.711	857.263	1179.039	0.586	4.735	10.711	***3.806***
2022-09-09 11:00	6728411	8.164	-115.232	10.708	853.283	1173.656	0.584	11.052	10.708	***3.667***
2022-09-09 11:15	6729311	8.137	-113.754	10.765	860.331	1181.592	0.588	5.671	10.765	***3.786***
2022-09-09 11:30	6730211	8.218	-118.291	10.939	899.486	1229.766	0.613	7.118	10.939	***4.239***
2022-09-09 11:45	6731111	8.305	-123.065	11.046	911.652	1242.911	0.620	6.521	11.046	***5.892***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-09 12:00	6732011	8.394	-128.028	11.155	913.626	1242.097	0.620	7.650	11.155	6.609
2022-09-09 12:15	6732911	8.345	-125.353	11.246	914.655	1240.536	0.619	6.758	11.246	6.889
2022-09-09 12:30	6733811	8.392	-128.031	11.405	932.514	1259.592	0.629	6.983	11.405	7.096
2022-09-09 12:45	6734711	8.407	-128.846	11.503	938.566	1264.544	0.632	6.883	11.503	7.416
2022-09-09 13:00	6735611	8.483	-133.109	11.647	956.325	1283.731	0.642	7.618	11.647	7.763
2022-09-09 13:15	6736511	8.495	-133.808	11.762	960.175	1285.105	0.643	6.790	11.762	9.053
2022-09-09 13:30	6737411	8.531	-135.877	11.886	974.295	1299.873	0.651	6.731	11.886	8.871
2022-09-09 13:45	6738311	8.573	-138.190	11.967	980.151	1304.993	0.653	6.506	11.967	9.178
2022-09-09 14:00	6739211	8.640	-141.928	12.054	986.766	1310.924	0.657	10.367	12.054	9.448
2022-09-09 14:15	6740111	8.587	-139.039	12.121	988.645	1311.195	0.657	7.759	12.121	9.682
2022-09-09 14:30	6741011	8.604	-140.040	12.243	992.603	1312.373	0.658	6.106	12.243	9.944
2022-09-09 14:45	6741911	8.576	-138.555	12.397	997.285	1313.460	0.658	6.371	12.397	10.240
2022-09-09 15:00	6742811	8.630	-141.618	12.566	1003.001	1315.382	0.660	8.343	12.566	10.516
2022-09-09 15:15	6743711	8.617	-140.934	12.635	1003.724	1314.075	0.659	6.363	12.635	10.717
2022-09-09 15:30	6744611	8.610	-140.607	12.698	1005.369	1314.137	0.659	5.937	12.698	10.612
2022-09-09 15:45	6745511	8.603	-140.255	12.760	1007.072	1314.360	0.659	6.474	12.760	10.590
2022-09-09 16:00	6746411	8.663	-143.561	12.816	1009.679	1315.909	0.660	8.676	12.816	10.612
2022-09-09 16:15	6747311	8.629	-141.740	12.860	1010.136	1315.076	0.660	6.579	12.860	11.034
2022-09-09 16:30	6748211	8.624	-141.461	12.931	1011.954	1315.097	0.660	6.573	12.931	10.997
2022-09-09 16:45	6749111	8.597	-140.049	13.005	1013.815	1315.098	0.660	6.005	13.005	11.241
2022-09-09 17:00	6750011	8.670	-144.115	13.071	1015.139	1314.667	0.660	13.843	13.071	11.345
2022-09-09 17:15	6750911	8.655	-143.280	13.095	1015.421	1314.263	0.660	6.656	13.095	11.417
2022-09-09 17:30	6751811	8.637	-142.305	13.096	1015.242	1313.994	0.659	5.137	13.096	11.496
2022-09-09 17:45	6752711	8.668	-143.986	13.098	1015.209	1313.891	0.659	5.348	13.098	11.768
2022-09-09 18:00	6753611	8.713	-146.451	13.093	1015.514	1314.464	0.660	17.566	13.093	11.978
2022-09-09 18:15	6754511	8.674	-144.308	13.093	1015.332	1314.231	0.660	6.055	13.093	11.946
2022-09-09 18:30	6755411	8.663	-143.704	13.098	1015.397	1314.149	0.660	5.013	13.098	12.018
2022-09-09 18:45	6756311	8.667	-143.957	13.167	1016.794	1313.699	0.659	6.199	13.167	12.060
2022-09-09 19:00	6757211	8.682	-144.846	13.210	1017.351	1313.015	0.659	9.359	13.210	11.936
2022-09-09 19:15	6758111	8.675	-144.422	13.229	1017.254	1312.281	0.659	5.190	13.229	11.908
2022-09-09 19:30	6759011	8.665	-143.883	13.245	1017.880	1312.587	0.659	4.779	13.245	11.810
2022-09-09 19:45	6759911	8.659	-143.573	13.252	1017.543	1311.932	0.658	4.321	13.252	11.732
2022-09-09 20:00	6760811	8.692	-145.416	13.250	1016.155	1310.189	0.658	10.229	13.250	11.619
2022-09-09 20:15	6761711	8.663	-143.795	13.240	1015.765	1310.032	0.657	5.816	13.240	11.692
2022-09-09 20:30	6762611	8.642	-142.608	13.222	1015.182	1309.858	0.657	4.340	13.222	11.571
2022-09-09 20:45	6763511	8.630	-141.954	13.193	1014.484	1309.891	0.657	4.444	13.193	11.567
2022-09-09 21:00	6764411	8.648	-142.891	13.140	1004.890	1299.191	0.652	10.269	13.140	11.565
2022-09-09 21:15	6765311	8.620	-141.356	13.100	1003.839	1299.129	0.652	5.093	13.100	11.497
2022-09-09 21:30	6766211	8.601	-140.269	13.039	1004.209	1301.562	0.653	4.946	13.039	11.197
2022-09-09 21:45	6767111	8.553	-137.618	12.990	1005.327	1304.602	0.654	4.425	12.990	10.957
2022-09-09 22:00	6768011	8.613	-140.877	12.902	994.268	1293.044	0.648	5.805	12.902	10.602
2022-09-09 22:15	6768911	8.563	-138.073	12.847	994.527	1295.148	0.649	5.350	12.847	10.326
2022-09-09 22:30	6769811	8.552	-137.441	12.810	997.468	1300.177	0.652	4.404	12.810	10.144
2022-09-09 22:45	6770711	8.521	-135.741	12.778	998.040	1301.967	0.653	4.303	12.778	9.878

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-09 23:00	6771611	8.527	-136.034	12.740	988.958	1291.332	0.647	6.777	12.740	9.647
2022-09-09 23:15	6772511	8.531	-136.244	12.695	985.736	1288.600	0.646	4.782	12.695	9.598
2022-09-09 23:30	6773411	8.530	-136.163	12.662	985.027	1288.716	0.646	4.897	12.662	9.446
2022-09-09 23:45	6774311	8.522	-135.682	12.602	983.748	1288.995	0.646	6.653	12.602	9.318
2022-09-10 0:00	6775211	8.545	-136.900	12.514	977.244	1283.285	0.643	7.006	12.514	9.100
2022-09-10 0:15	6776111	8.527	-135.894	12.449	973.928	1281.033	0.641	7.934	12.449	9.101
2022-09-10 0:30	6777011	8.534	-136.302	12.419	973.502	1281.438	0.642	5.702	12.419	9.409
2022-09-10 0:45	6777911	8.523	-135.674	12.380	970.952	1279.307	0.641	13.784	12.380	9.658
2022-09-10 1:00	6778811	8.536	-136.325	12.315	960.355	1267.441	0.634	7.758	12.315	9.465
2022-09-10 1:15	6779711	8.507	-134.740	12.264	960.341	1269.060	0.635	7.720	12.264	9.312
2022-09-10 1:30	6780611	8.504	-134.532	12.213	958.972	1268.885	0.635	5.941	12.213	9.015
2022-09-10 1:45	6781511	8.491	-133.820	12.172	957.305	1267.971	0.634	7.833	12.172	8.621
2022-09-10 2:00	6782411	8.508	-134.699	12.146	954.819	1265.517	0.633	7.817	12.146	8.362
2022-09-10 2:15	6783311	8.465	-132.339	12.118	954.116	1265.477	0.633	7.034	12.118	8.387
2022-09-10 2:30	6784211	8.462	-132.165	12.077	952.876	1265.148	0.633	7.312	12.077	8.171
2022-09-10 2:45	6785111	8.437	-130.749	12.035	951.446	1264.586	0.632	7.797	12.035	7.974
2022-09-10 3:00	6786011	8.448	-131.330	11.987	945.922	1258.782	0.629	7.394	11.987	7.834
2022-09-10 3:15	6786911	8.424	-130.003	11.953	945.488	1259.315	0.630	7.104	11.953	7.848
2022-09-10 3:30	6787811	8.409	-129.149	11.913	945.168	1260.156	0.630	7.565	11.913	7.710
2022-09-10 3:45	6788711	8.399	-128.582	11.872	945.185	1261.515	0.631	6.914	11.872	7.540
2022-09-10 4:00	6789611	8.447	-131.209	11.839	943.032	1259.673	0.630	7.048	11.839	7.503
2022-09-10 4:15	6790511	8.410	-129.147	11.785	939.869	1257.185	0.628	7.663	11.785	7.518
2022-09-10 4:30	6791411	8.394	-128.238	11.727	936.259	1254.225	0.627	6.194	11.727	7.541
2022-09-10 4:45	6792311	8.377	-127.289	11.676	933.647	1252.349	0.626	7.769	11.676	7.480
2022-09-10 5:00	6793211	8.403	-128.689	11.623	927.195	1245.386	0.622	7.288	11.623	7.402
2022-09-10 5:15	6794111	8.375	-127.144	11.569	926.366	1245.994	0.622	7.660	11.569	7.157
2022-09-10 5:30	6795011	8.373	-127.039	11.514	924.574	1245.364	0.622	7.969	11.514	7.041
2022-09-10 5:45	6795911	8.358	-126.197	11.470	923.850	1245.784	0.622	7.490	11.470	6.753
2022-09-10 6:00	6796811	8.370	-126.815	11.430	923.401	1246.458	0.622	5.993	11.430	***6.446***
2022-09-10 6:15	6797711	8.322	-124.176	11.369	920.406	1244.379	0.621	5.963	11.369	***6.086***
2022-09-10 6:30	6798611	8.310	-123.477	11.312	916.634	1241.108	0.619	7.373	11.312	***6.029***
2022-09-10 6:45	6799511	8.303	-123.088	11.275	915.629	1240.951	0.619	7.268	11.275	***6.144***
2022-09-10 7:00	6800411	8.308	-123.303	11.210	906.427	1230.533	0.614	6.589	11.210	***6.063***
2022-09-10 7:15	6801311	8.286	-122.068	11.175	907.659	1233.330	0.615	6.116	11.175	***5.777***
2022-09-10 7:30	6802211	8.270	-121.191	11.133	910.633	1238.712	0.618	5.719	11.133	***5.522***
2022-09-10 7:45	6803111	8.264	-120.873	11.078	908.766	1237.961	0.617	6.301	11.078	***5.350***
2022-09-10 8:00	6804011	8.279	-121.653	11.016	898.345	1225.724	0.611	11.465	11.016	***5.221***
2022-09-10 8:15	6804911	8.239	-119.410	10.952	895.627	1224.059	0.610	5.216	10.952	***5.026***
2022-09-10 8:30	6805811	8.232	-119.007	10.899	897.420	1228.210	0.612	4.852	10.899	***4.925***
2022-09-10 8:45	6806711	8.239	-119.405	10.852	900.110	1233.418	0.615	4.198	10.852	***4.817***
2022-09-10 9:00	6807611	8.273	-121.248	10.813	893.274	1225.293	0.611	5.730	10.813	***4.752***
2022-09-10 9:15	6808511	8.228	-118.759	10.771	891.229	1223.834	0.610	5.316	10.771	***4.698***
2022-09-10 9:30	6809411	8.226	-118.625	10.746	891.917	1225.585	0.611	4.899	10.746	***4.631***
2022-09-10 9:45	6810311	8.230	-118.811	10.724	893.227	1228.089	0.612	3.893	10.724	***4.513***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-10 10:00	6811211	8.261	-120.535	10.714	891.042	1225.416	0.610	4.981	10.714	***4.356***
2022-09-10 10:15	6812111	8.218	-118.172	10.697	888.248	1222.107	0.609	4.561	10.697	***4.282***
2022-09-10 10:30	6813011	8.215	-118.012	10.681	888.792	1223.363	0.609	4.277	10.681	***4.200***
2022-09-10 10:45	6813911	8.215	-117.977	10.665	888.941	1224.082	0.610	4.285	10.665	***4.153***
2022-09-10 11:00	6814811	8.243	-119.543	10.657	881.106	1213.550	0.604	4.611	10.657	***4.183***
2022-09-10 11:15	6815711	8.195	-116.918	10.646	880.613	1213.225	0.604	3.601	10.646	***4.313***
2022-09-10 11:30	6816611	8.196	-116.968	10.646	881.634	1214.640	0.605	3.674	10.646	***4.246***
2022-09-10 11:45	6817511	8.193	-116.804	10.670	880.538	1212.353	0.604	4.097	10.670	***4.116***
2022-09-10 12:00	6818411	8.264	-120.718	10.807	887.432	1217.467	0.606	6.710	10.807	***4.596***
2022-09-10 12:15	6819311	8.269	-121.064	10.937	907.430	1240.667	0.619	6.505	10.937	***5.830***
2022-09-10 12:30	6820211	8.300	-122.795	11.080	916.891	1248.968	0.623	5.980	11.080	***6.279***
2022-09-10 12:45	6821111	8.368	-126.622	11.195	923.418	1254.079	0.626	6.022	11.195	6.964
2022-09-10 13:00	6822011	8.448	-131.028	11.336	937.525	1268.605	0.634	7.045	11.336	7.406
2022-09-10 13:15	6822911	8.438	-130.551	11.423	941.235	1270.784	0.635	7.208	11.423	8.066
2022-09-10 13:30	6823811	8.455	-131.531	11.528	950.264	1279.484	0.640	6.187	11.528	8.430
2022-09-10 13:45	6824711	8.507	-134.432	11.624	957.961	1286.697	0.644	5.962	11.624	8.985
2022-09-10 14:00	6825611	8.596	-139.339	11.727	967.147	1295.598	0.648	8.492	11.727	9.369
2022-09-10 14:15	6826511	8.568	-137.866	11.805	969.800	1296.578	0.649	7.188	11.805	9.556
2022-09-10 14:30	6827411	8.565	-137.722	11.927	974.116	1298.288	0.650	6.594	11.927	10.098
2022-09-10 14:45	6828311	8.571	-138.159	12.071	978.244	1299.019	0.650	7.252	12.071	10.195
2022-09-10 15:00	6829211	8.631	-141.485	12.203	982.662	1300.529	0.651	8.783	12.203	10.211
2022-09-10 15:15	6830111	8.592	-139.365	12.263	983.654	1299.885	0.651	6.060	12.263	10.484
2022-09-10 15:30	6831011	8.596	-139.658	12.334	985.271	1299.682	0.651	6.314	12.334	10.360
2022-09-10 15:45	6831911	8.598	-139.799	12.390	986.581	1299.583	0.651	6.348	12.390	10.474
2022-09-10 16:00	6832811	8.650	-142.660	12.462	988.924	1300.314	0.652	10.549	12.462	10.676
2022-09-10 16:15	6833711	8.615	-140.758	12.520	989.646	1299.387	0.651	6.761	12.520	10.775
2022-09-10 16:30	6834611	8.608	-140.455	12.610	991.473	1298.840	0.651	6.272	12.610	10.984
2022-09-10 16:45	6835511	8.623	-141.304	12.715	993.894	1298.614	0.651	6.115	12.715	10.911
2022-09-10 17:00	6836411	8.640	-142.293	12.843	996.859	1298.335	0.651	8.579	12.843	10.790
2022-09-10 17:15	6837311	8.608	-140.612	12.909	997.900	1297.568	0.651	7.218	12.909	11.076
2022-09-10 17:30	6838211	8.585	-139.353	13.003	1000.178	1297.495	0.651	6.386	13.003	11.210
2022-09-10 17:45	6839111	8.633	-142.093	13.130	1003.582	1297.833	0.651	6.774	13.130	11.373
2022-09-10 18:00	6840011	8.674	-144.408	13.311	1007.820	1297.508	0.651	10.107	13.311	11.245
2022-09-10 18:15	6840911	8.644	-142.803	13.384	1008.841	1296.496	0.651	7.119	13.384	11.380
2022-09-10 18:30	6841811	8.626	-141.840	13.464	1010.503	1296.077	0.650	5.717	13.464	11.390
2022-09-10 18:45	6842711	8.630	-142.114	13.527	1012.122	1296.157	0.650	5.990	13.527	11.494
2022-09-10 19:00	6843611	8.647	-143.061	13.593	1012.401	1294.425	0.650	6.526	13.593	11.506
2022-09-10 19:15	6844511	8.617	-141.420	13.610	1012.979	1294.635	0.650	4.872	13.610	11.603
2022-09-10 19:30	6845411	8.612	-141.170	13.624	1013.422	1294.744	0.650	4.600	13.624	11.401
2022-09-10 19:45	6846312	8.606	-140.858	13.647	1014.096	1294.878	0.650	4.329	13.647	11.352
2022-09-10 20:00	6847212	8.637	-142.591	13.675	1015.146	1295.341	0.650	4.981	13.675	11.152
2022-09-10 20:15	6848112	8.607	-140.886	13.679	1014.078	1293.862	0.649	3.981	13.679	10.893
2022-09-10 20:30	6849012	8.582	-139.506	13.674	1014.099	1294.043	0.650	3.817	13.674	10.749
2022-09-10 20:45	6849912	8.541	-137.246	13.657	1013.272	1293.512	0.649	5.758	13.657	10.533

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-10 21:00	6850812	8.575	-139.132	13.635	1009.744	1289.710	0.647	6.133	13.635	10.411
2022-09-10 21:15	6851712	8.576	-139.134	13.570	1006.299	1287.334	0.646	6.743	13.570	10.647
2022-09-10 21:30	6852612	8.557	-138.080	13.503	1002.989	1285.223	0.645	5.858	13.503	10.854
2022-09-10 21:45	6853512	8.553	-137.820	13.447	1001.228	1284.716	0.644	6.671	13.447	10.862
2022-09-10 22:00	6854412	8.601	-140.407	13.373	993.794	1277.482	0.641	7.209	13.373	10.623
2022-09-10 22:15	6855312	8.568	-138.605	13.319	991.708	1276.520	0.640	6.208	13.319	10.460
2022-09-10 22:30	6856212	8.558	-138.032	13.268	989.107	1274.764	0.639	7.522	13.268	10.278
2022-09-10 22:45	6857112	8.552	-137.675	13.225	988.125	1274.828	0.639	7.309	13.225	10.255
2022-09-10 23:00	6858012	8.548	-137.436	13.180	978.742	1264.131	0.633	6.488	13.180	10.219
2022-09-10 23:15	6858912	8.527	-136.228	13.149	981.674	1268.889	0.636	5.308	13.149	9.872
2022-09-10 23:30	6859812	8.481	-133.705	13.112	983.294	1272.140	0.638	4.529	13.112	9.770
2022-09-10 23:45	6860712	8.482	-133.741	13.088	987.202	1277.966	0.641	3.639	13.088	9.581
2022-09-11 0:00	6861612	8.549	-137.386	13.069	984.194	1274.670	0.639	5.506	13.069	9.434
2022-09-11 0:15	6862512	8.512	-135.374	13.044	983.953	1275.151	0.639	3.663	13.044	9.193
2022-09-11 0:30	6863412	8.515	-135.486	13.016	986.881	1279.812	0.641	3.106	13.016	9.134
2022-09-11 0:45	6864312	8.511	-135.262	12.975	986.381	1280.487	0.642	3.412	12.975	8.950
2022-09-11 1:00	6865212	8.514	-135.412	12.944	981.036	1274.503	0.639	5.335	12.944	8.846
2022-09-11 1:15	6866112	8.483	-133.727	12.918	977.888	1271.244	0.637	3.883	12.918	8.899
2022-09-11 1:30	6867012	8.469	-132.918	12.885	976.347	1270.288	0.636	5.110	12.885	8.840
2022-09-11 1:45	6867912	8.463	-132.549	12.836	975.601	1270.854	0.637	3.400	12.836	8.651
2022-09-11 2:00	6868812	8.483	-133.648	12.779	967.151	1261.653	0.632	7.380	12.779	8.438
2022-09-11 2:15	6869712	8.451	-131.867	12.717	964.060	1259.563	0.631	4.574	12.717	8.158
2022-09-11 2:30	6870612	8.432	-130.725	12.605	945.031	1238.159	0.619	7.895	12.605	8.043
2022-09-11 2:45	6871512	8.412	-129.609	12.536	949.644	1246.345	0.623	5.383	12.536	7.914
2022-09-11 3:00	6872412	8.418	-129.921	12.478	943.206	1239.722	0.620	6.077	12.478	7.838
2022-09-11 3:15	6873312	8.402	-129.011	12.420	942.751	1240.913	0.621	4.921	12.420	7.741
2022-09-11 3:30	6874212	8.395	-128.620	12.357	942.689	1242.809	0.621	4.313	12.357	7.569
2022-09-11 3:45	6875112	8.389	-128.253	12.296	942.157	1244.001	0.622	4.336	12.296	7.367
2022-09-11 4:00	6876012	8.415	-129.638	12.238	933.592	1234.521	0.617	4.833	12.238	7.028
2022-09-11 4:15	6876912	8.366	-126.905	12.172	929.795	1231.531	0.615	4.996	12.172	6.942
2022-09-11 4:30	6877812	8.366	-126.898	12.118	929.193	1232.417	0.616	3.919	12.118	6.753
2022-09-11 4:45	6878712	8.362	-126.636	12.082	928.985	1233.287	0.616	4.119	12.082	6.529
2022-09-11 5:00	6879612	8.377	-127.447	12.008	918.205	1221.266	0.610	6.276	12.008	***6.234***
2022-09-11 5:15	6880512	8.317	-124.125	11.956	915.121	1218.772	0.609	4.059	11.956	***6.279***
2022-09-11 5:30	6881412	8.312	-123.827	11.902	914.593	1219.745	0.609	4.073	11.902	***6.131***
2022-09-11 5:45	6882312	8.310	-123.730	11.853	913.843	1220.273	0.609	3.801	11.853	***5.970***
2022-09-11 6:00	6883212	8.323	-124.376	11.786	903.757	1208.860	0.603	4.517	11.786	***5.770***
2022-09-11 6:15	6884112	8.273	-121.608	11.718	903.153	1210.154	0.604	4.738	11.718	***5.602***
2022-09-11 6:30	6885012	8.274	-121.624	11.665	901.874	1210.065	0.604	4.577	11.665	***5.478***
2022-09-11 6:45	6885912	8.269	-121.346	11.623	901.755	1211.225	0.604	4.403	11.623	***5.273***
2022-09-11 7:00	6886812	8.283	-122.106	11.563	894.304	1203.061	0.600	6.188	11.563	***5.050***
2022-09-11 7:15	6887712	8.242	-119.841	11.489	890.669	1200.446	0.598	4.678	11.489	***5.143***
2022-09-11 7:30	6888612	8.240	-119.686	11.430	890.141	1201.577	0.599	4.555	11.430	***5.019***
2022-09-11 7:45	6889512	8.230	-119.116	11.377	891.070	1204.464	0.600	4.763	11.377	***5.140***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-11 8:00	6890412	8.264	-120.976	11.345	881.522	1192.552	0.594	7.080	11.345	***4.986***
2022-09-11 8:15	6891312	8.221	-118.566	11.269	878.914	1191.357	0.593	6.353	11.269	***4.959***
2022-09-11 8:30	6892212	8.219	-118.463	11.220	875.807	1188.671	0.592	5.944	11.220	***5.066***
2022-09-11 8:45	6893112	8.214	-118.167	11.181	874.351	1187.880	0.592	6.597	11.181	***5.198***
2022-09-11 9:00	6894012	8.230	-119.033	11.146	863.028	1173.553	0.584	6.919	11.146	***5.177***
2022-09-11 9:15	6894912	8.194	-117.025	11.111	864.331	1176.416	0.586	6.126	11.111	***4.824***
2022-09-11 9:30	6895812	8.191	-116.844	11.083	863.814	1176.563	0.586	5.637	11.083	***4.736***
2022-09-11 9:45	6896712	8.185	-116.513	11.059	864.151	1177.745	0.586	5.298	11.059	***4.772***
2022-09-11 10:00	6897612	8.210	-117.853	11.051	857.791	1169.344	0.582	5.857	11.051	***4.710***
2022-09-11 10:15	6898512	8.171	-115.709	11.027	859.072	1171.814	0.583	4.847	11.027	***4.375***
2022-09-11 10:30	6899412	8.168	-115.576	11.024	859.928	1173.065	0.584	4.915	11.024	***4.257***
2022-09-11 10:45	6900312	8.162	-115.213	11.021	860.326	1173.712	0.584	4.579	11.021	***4.111***
2022-09-11 11:00	6901212	8.184	-116.432	11.013	856.165	1168.256	0.581	5.331	11.013	***4.230***
2022-09-11 11:15	6902112	8.153	-114.727	11.018	855.453	1167.162	0.581	4.333	11.018	***4.223***
2022-09-11 11:30	6903012	8.151	-114.648	11.035	856.065	1167.458	0.581	4.578	11.035	***4.113***
2022-09-11 11:45	6903912	8.145	-114.307	11.062	857.713	1168.887	0.582	5.447	11.062	***4.052***
2022-09-11 12:00	6904812	8.188	-116.718	11.105	856.844	1166.404	0.580	4.862	11.105	***4.076***
2022-09-11 12:15	6905712	8.154	-114.849	11.138	857.969	1166.917	0.581	4.611	11.138	***4.115***
2022-09-11 12:30	6906612	8.147	-114.484	11.179	859.349	1167.553	0.581	4.798	11.179	***4.079***
2022-09-11 12:45	6907512	8.137	-113.962	11.237	864.290	1172.499	0.584	4.435	11.237	***4.253***
2022-09-11 13:00	6908412	8.281	-121.958	11.441	881.237	1189.209	0.593	7.338	11.441	***5.580***
2022-09-11 13:15	6909312	8.290	-122.457	11.522	884.345	1190.925	0.594	6.056	11.522	7.036
2022-09-11 13:30	6910212	8.311	-123.630	11.619	888.179	1193.109	0.595	6.348	11.619	7.053
2022-09-11 13:45	6911112	8.307	-123.470	11.698	890.244	1193.465	0.595	7.221	11.698	7.146
2022-09-11 14:00	6912012	8.344	-125.556	11.831	894.895	1195.637	0.596	7.233	11.831	7.498
2022-09-11 14:15	6912912	8.305	-123.432	11.912	897.536	1196.679	0.597	5.426	11.912	7.666
2022-09-11 14:30	6913812	8.289	-122.635	12.044	907.165	1205.457	0.602	5.074	12.044	7.879
2022-09-11 14:45	6914712	8.281	-122.297	12.265	924.766	1222.020	0.611	5.309	12.265	8.688
2022-09-11 15:00	6915612	8.439	-131.125	12.542	952.860	1250.380	0.626	9.687	12.542	8.690
2022-09-11 15:15	6916512	8.500	-134.556	12.715	961.637	1256.451	0.629	8.087	12.715	10.445
2022-09-11 15:30	6917412	8.564	-138.111	12.809	976.891	1273.388	0.638	7.997	12.809	10.273
2022-09-11 15:45	6918312	8.572	-138.555	12.861	979.588	1275.260	0.639	7.155	12.861	10.475
2022-09-11 16:00	6919212	8.636	-142.128	12.957	985.679	1280.133	0.642	10.412	12.957	10.692
2022-09-11 16:15	6920112	8.603	-140.359	13.013	986.693	1279.687	0.641	8.595	13.013	10.928
2022-09-11 16:30	6921012	8.596	-140.040	13.110	989.755	1280.585	0.642	6.230	13.110	10.899
2022-09-11 16:45	6921912	8.586	-139.480	13.165	991.838	1281.534	0.642	6.307	13.165	11.010
2022-09-11 17:00	6922812	8.645	-142.753	13.210	993.914	1282.786	0.643	8.694	13.210	10.972
2022-09-11 17:15	6923712	8.608	-140.791	13.266	995.549	1283.115	0.643	6.755	13.266	11.512
2022-09-11 17:30	6924612	8.594	-140.035	13.354	997.915	1283.394	0.644	7.973	13.354	11.624
2022-09-11 17:45	6925512	8.612	-141.115	13.487	1001.085	1283.286	0.644	7.463	13.487	12.039
2022-09-11 18:00	6926412	8.660	-143.816	13.632	1005.267	1284.062	0.644	8.626	13.632	12.016
2022-09-11 18:15	6927312	8.631	-142.252	13.672	1005.801	1283.504	0.644	6.132	13.672	11.961
2022-09-11 18:30	6928212	8.644	-143.006	13.756	1007.736	1283.337	0.644	7.037	13.756	12.188
2022-09-11 18:45	6929112	8.655	-143.697	13.898	1010.588	1282.535	0.644	5.724	13.898	12.281

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-11 19:00	6930012	8.634	-142.565	14.035	1009.785	1277.295	0.641	6.323	14.035	11.390
2022-09-11 19:15	6930912	8.593	-140.328	14.083	1009.268	1275.166	0.640	6.372	14.083	11.518
2022-09-11 19:30	6931812	8.599	-140.698	14.183	1007.755	1270.166	0.637	6.569	14.183	11.914
2022-09-11 19:45	6932712	8.591	-140.305	14.254	1007.626	1267.838	0.636	5.266	14.254	11.802
2022-09-11 20:00	6933612	8.609	-141.318	14.311	1009.489	1268.450	0.637	6.221	14.311	11.641
2022-09-11 20:15	6934512	8.563	-138.757	14.235	1009.432	1270.703	0.638	5.233	14.235	11.431
2022-09-11 20:30	6935412	8.646	-143.335	14.181	1009.074	1271.913	0.638	6.436	14.181	11.524
2022-09-11 20:45	6936312	8.650	-143.514	14.117	1007.617	1272.027	0.638	6.594	14.117	12.222
2022-09-11 21:00	6937212	8.671	-144.606	14.028	1002.880	1268.770	0.637	6.467	14.028	12.630
2022-09-11 21:15	6938112	8.627	-142.167	13.930	999.970	1268.081	0.636	6.447	13.930	12.349
2022-09-11 21:30	6939012	8.585	-139.751	13.817	993.305	1263.083	0.633	6.589	13.817	12.036
2022-09-11 21:45	6939912	8.584	-139.685	13.757	993.709	1265.441	0.635	6.409	13.757	11.629
2022-09-11 22:00	6940812	8.626	-141.935	13.676	985.825	1257.907	0.631	8.394	13.676	11.325
2022-09-11 22:15	6941712	8.589	-139.868	13.553	976.513	1249.771	0.626	7.953	13.553	11.011
2022-09-11 22:30	6942612	8.552	-137.758	13.466	973.122	1248.085	0.625	8.639	13.466	10.795
2022-09-11 22:45	6943512	8.529	-136.423	13.331	962.460	1238.484	0.620	9.282	13.331	10.549
2022-09-11 23:00	6944412	8.536	-136.738	13.204	951.817	1228.645	0.615	7.216	13.204	10.306
2022-09-11 23:15	6945312	8.512	-135.393	13.091	944.484	1222.571	0.612	7.958	13.091	10.189
2022-09-11 23:30	6946212	8.499	-134.606	13.003	942.092	1222.145	0.611	8.260	13.003	10.089
2022-09-11 23:45	6947112	8.494	-134.315	12.906	936.709	1218.072	0.609	7.750	12.906	9.931
2022-09-12 0:00	6948012	8.493	-134.223	12.814	932.317	1215.150	0.607	10.583	12.814	9.687
2022-09-12 0:15	6948912	8.440	-131.230	12.697	924.231	1208.116	0.604	8.846	12.697	9.309
2022-09-12 0:30	6949812	8.420	-130.079	12.603	920.502	1206.078	0.603	9.629	12.603	9.163
2022-09-12 0:45	6950712	8.412	-129.614	12.512	915.147	1201.811	0.600	9.334	12.512	8.955
2022-09-12 1:00	6951612	8.420	-129.991	12.424	912.343	1200.764	0.600	7.958	12.424	8.726
2022-09-12 1:15	6952512	8.399	-128.820	12.321	906.213	1195.794	0.597	9.206	12.321	8.357
2022-09-12 1:30	6953412	8.376	-127.468	12.208	900.325	1191.414	0.595	9.249	12.208	8.275
2022-09-12 1:45	6954312	8.354	-126.221	12.113	897.332	1190.333	0.594	9.661	12.113	8.107
2022-09-12 2:00	6955212	8.391	-128.248	12.059	896.816	1191.269	0.594	11.348	12.059	7.777
2022-09-12 2:15	6956112	8.349	-125.864	11.946	889.989	1185.595	0.591	10.899	11.946	7.524
2022-09-12 2:30	6957012	8.328	-124.722	11.860	890.203	1188.483	0.593	10.317	11.860	7.331
2022-09-12 2:45	6957912	8.313	-123.854	11.796	895.149	1197.031	0.597	10.589	11.796	7.204
2022-09-12 3:00	6958812	8.319	-124.123	11.726	883.155	1183.101	0.590	9.032	11.726	7.035
2022-09-12 3:15	6959712	8.310	-123.589	11.649	884.101	1186.732	0.592	10.382	11.649	6.723
2022-09-12 3:30	6960612	8.296	-122.786	11.567	883.014	1187.745	0.592	9.553	11.567	6.802
2022-09-12 3:45	6961512	8.277	-121.746	11.510	888.082	1196.325	0.596	11.465	11.510	6.778
2022-09-12 4:00	6962412	8.320	-124.056	11.436	875.633	1181.801	0.589	9.598	11.436	6.562
2022-09-12 4:15	6963312	8.280	-121.839	11.367	875.450	1183.661	0.590	7.760	11.367	***6.138***
2022-09-12 4:30	6964212	8.273	-121.446	11.297	875.774	1186.241	0.591	7.979	11.297	***5.986***
2022-09-12 4:45	6965112	8.267	-121.074	11.211	875.313	1188.269	0.592	9.123	11.211	***5.942***
2022-09-12 5:00	6966012	8.289	-122.252	11.123	858.706	1168.395	0.581	9.534	11.123	***5.942***
2022-09-12 5:15	6966912	8.250	-120.053	11.049	860.187	1172.663	0.584	6.988	11.049	***5.631***
2022-09-12 5:30	6967812	8.251	-120.070	10.982	861.510	1176.504	0.585	5.825	10.982	***5.414***
2022-09-12 5:45	6968712	8.247	-119.853	10.921	860.351	1176.814	0.586	5.787	10.921	***5.189***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-12 6:00	6969612	8.266	-120.888	10.850	845.784	1159.021	0.576	8.450	10.850	***4.993***
2022-09-12 6:15	6970512	8.211	-117.841	10.775	846.224	1161.917	0.578	6.962	10.775	***4.947***
2022-09-12 6:30	6971412	8.205	-117.483	10.721	847.562	1165.390	0.579	6.020	10.721	***4.815***
2022-09-12 6:45	6972312	8.201	-117.242	10.675	847.832	1167.176	0.580	5.484	10.675	***4.733***
2022-09-12 7:00	6973212	8.215	-117.977	10.619	839.687	1157.664	0.575	9.646	10.619	***4.530***
2022-09-12 7:15	6974112	8.171	-115.530	10.554	836.607	1155.403	0.574	6.153	10.554	***4.279***
2022-09-12 7:30	6975012	8.168	-115.364	10.496	835.813	1156.077	0.574	5.465	10.496	***4.082***
2022-09-12 7:45	6975912	8.163	-115.044	10.418	834.755	1157.013	0.575	6.512	10.418	***4.090***
2022-09-12 8:00	6976812	8.188	-116.384	10.356	825.424	1145.946	0.569	7.600	10.356	***3.927***
2022-09-12 8:15	6977712	8.139	-113.676	10.294	823.266	1144.842	0.568	7.422	10.294	***3.839***
2022-09-12 8:30	6978612	8.136	-113.511	10.230	822.000	1145.007	0.568	7.398	10.230	***3.827***
2022-09-12 8:45	6979512	8.132	-113.273	10.181	821.186	1145.375	0.568	7.607	10.181	***3.822***
2022-09-12 9:00	6980412	8.160	-114.753	10.141	813.372	1135.674	0.563	9.268	10.141	***3.950***
2022-09-12 9:15	6981312	8.129	-113.080	10.097	812.539	1135.872	0.563	7.082	10.097	***3.902***
2022-09-12 9:30	6982212	8.128	-113.008	10.069	813.186	1137.617	0.564	6.152	10.069	***3.861***
2022-09-12 9:45	6983112	8.121	-112.622	10.049	814.098	1139.494	0.565	6.023	10.049	***3.696***
2022-09-12 10:00	6984012	8.156	-114.532	10.039	809.048	1132.731	0.562	6.350	10.039	***3.542***
2022-09-12 10:15	6984912	8.113	-112.169	10.015	809.639	1134.277	0.562	6.770	10.015	***3.447***
2022-09-12 10:30	6985812	8.094	-111.089	9.985	804.839	1128.468	0.559	6.807	9.985	***3.483***
2022-09-12 10:45	6986712	8.053	-108.855	9.977	799.164	1120.739	0.555	6.509	9.977	***3.585***
2022-09-12 11:00	6987612	8.077	-110.202	9.985	793.083	1111.990	0.551	8.435	9.985	***3.468***
2022-09-12 11:15	6988512	8.026	-107.396	9.994	793.205	1111.884	0.551	7.363	9.994	***3.337***
2022-09-12 11:30	6989412	8.022	-107.188	10.007	793.295	1111.621	0.551	7.091	10.007	***3.329***
2022-09-12 11:45	6990312	8.009	-106.471	10.025	793.751	1111.721	0.551	6.543	10.025	***3.201***
2022-09-12 12:00	6991212	8.103	-111.706	10.192	813.302	1134.041	0.563	8.932	10.192	***3.209***
2022-09-12 12:15	6992112	8.143	-113.983	10.499	858.133	1186.844	0.590	8.952	10.499	***4.942***
2022-09-12 12:30	6993012	8.274	-121.331	10.910	877.860	1201.094	0.598	6.707	10.910	***5.837***
2022-09-12 12:45	6993912	8.333	-124.717	11.249	893.508	1211.776	0.604	9.977	11.249	7.625
2022-09-12 13:00	6994812	8.360	-126.321	11.573	888.373	1194.772	0.596	9.234	11.573	7.816
2022-09-12 13:15	6995712	8.402	-128.734	11.807	890.917	1191.048	0.594	9.048	11.807	8.432
2022-09-12 13:30	6996612	8.372	-127.180	12.053	893.708	1187.310	0.592	8.777	12.053	8.473
2022-09-12 13:45	6997513	8.370	-127.146	12.198	898.172	1188.871	0.593	8.287	12.198	8.626
2022-09-12 14:00	6998413	8.419	-129.886	12.312	900.355	1188.341	0.593	8.779	12.312	8.742
2022-09-12 14:15	6999313	8.408	-129.323	12.320	901.553	1189.682	0.594	7.837	12.320	8.752
2022-09-12 14:30	7000213	8.414	-129.707	12.487	910.455	1196.402	0.597	7.504	12.487	8.599
2022-09-12 14:45	7001113	8.396	-128.796	12.678	909.564	1189.516	0.594	7.022	12.678	8.941
2022-09-12 15:00	7002013	8.408	-129.678	13.220	922.371	1190.161	0.595	8.395	13.220	8.881
2022-09-12 15:15	7002913	8.399	-129.282	13.421	931.937	1196.583	0.598	8.078	13.421	9.461
2022-09-12 15:30	7003813	8.333	-125.668	13.478	931.019	1193.718	0.597	6.656	13.478	9.588
2022-09-12 15:45	7004713	8.350	-126.631	13.469	928.160	1190.313	0.595	6.675	13.469	9.307
2022-09-12 16:00	7005613	8.347	-126.555	13.772	912.918	1162.136	0.581	7.684	13.772	9.570
2022-09-12 16:15	7006513	8.295	-123.780	13.929	908.958	1152.692	0.576	7.218	13.929	9.997
2022-09-12 16:30	7007413	8.298	-124.035	14.141	912.323	1151.053	0.575	7.193	14.141	10.044
2022-09-12 16:45	7008313	8.265	-122.256	14.224	913.622	1150.392	0.575	6.115	14.224	9.955

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-12 17:00	7009213	8.284	-123.494	14.685	912.174	1135.987	0.568	7.394	14.685	9.954
2022-09-12 17:15	7010113	8.288	-123.801	14.927	916.657	1135.023	0.567	6.554	14.927	10.395
2022-09-12 17:30	7011013	8.285	-123.782	15.274	927.743	1139.408	0.570	6.792	15.274	10.102
2022-09-12 17:45	7011913	8.187	-118.229	14.928	933.750	1156.175	0.578	9.238	14.928	10.197
2022-09-12 18:00	7012813	8.547	-137.980	14.524	955.944	1195.076	0.598	13.218	14.524	12.913
2022-09-12 18:15	7013713	8.585	-139.999	14.326	987.544	1240.441	0.622	7.837	14.326	12.060
2022-09-12 18:30	7014613	8.569	-139.050	14.153	987.444	1245.491	0.625	5.860	14.153	11.704
2022-09-12 18:45	7015513	8.515	-136.082	14.165	987.833	1245.604	0.625	5.257	14.165	11.582
2022-09-12 19:00	7016413	8.547	-137.882	14.277	987.415	1241.735	0.623	5.125	14.277	11.226
2022-09-12 19:15	7017313	8.457	-132.895	14.300	986.531	1239.930	0.622	4.789	14.300	11.088
2022-09-12 19:30	7018213	8.408	-129.917	13.692	1086.477	1385.774	0.698	15.909	13.692	11.013
2022-09-12 19:45	7019113	8.280	-122.621	13.228	1110.144	1432.160	0.722	10.479	13.228	8.830
2022-09-12 20:00	7020013	8.350	-126.448	13.066	1171.271	1517.060	0.766	16.904	13.066	8.285
2022-09-12 20:15	7020913	8.347	-126.245	12.998	1219.268	1581.902	0.800	19.018	12.998	8.184
2022-09-12 20:30	7021813	8.367	-127.330	13.005	1226.875	1591.493	0.805	21.960	13.005	8.209
2022-09-12 20:45	7022713	8.380	-128.081	12.990	1224.728	1589.287	0.804	20.164	12.990	8.086
2022-09-12 21:00	7023613	8.444	-131.557	12.944	1217.038	1581.132	0.800	23.977	12.944	7.967
2022-09-12 21:15	7024513	8.406	-129.466	12.890	1209.596	1573.552	0.796	21.280	12.890	8.155
2022-09-12 21:30	7025413	8.427	-130.568	12.803	1200.088	1564.594	0.791	21.677	12.803	8.276
2022-09-12 21:45	7026313	8.429	-130.622	12.731	1195.069	1560.829	0.789	20.877	12.731	8.194
2022-09-12 22:00	7027213	8.466	-132.666	12.654	1185.656	1551.504	0.784	31.533	12.654	8.101
2022-09-12 22:15	7028113	8.430	-130.632	12.611	1182.993	1549.685	0.783	20.991	12.611	8.089
2022-09-12 22:30	7029013	8.424	-130.301	12.561	1178.673	1545.979	0.781	22.448	12.561	8.064
2022-09-12 22:45	7029913	8.421	-130.103	12.524	1176.062	1543.964	0.780	20.876	12.524	8.007
2022-09-12 23:00	7030813	8.437	-130.966	12.471	1169.884	1537.915	0.776	21.788	12.471	7.991
2022-09-12 23:15	7031713	8.409	-129.392	12.449	1168.424	1536.828	0.776	19.179	12.449	7.880
2022-09-12 23:30	7032613	8.403	-129.080	12.411	1165.580	1534.562	0.775	19.130	12.411	7.877
2022-09-12 23:45	7033513	8.396	-128.648	12.367	1161.953	1531.500	0.773	19.176	12.367	7.846
2022-09-13 0:00	7034413	8.427	-130.355	12.308	1156.029	1525.956	0.770	26.855	12.308	7.797
2022-09-13 0:15	7035313	8.386	-128.064	12.284	1157.161	1528.360	0.771	19.348	12.284	7.665
2022-09-13 0:30	7036213	8.381	-127.785	12.240	1155.153	1527.425	0.771	18.176	12.240	7.779
2022-09-13 0:45	7037113	8.338	-125.394	12.175	1148.393	1520.964	0.767	18.321	12.175	7.821
2022-09-13 1:00	7038013	8.391	-128.298	12.125	1143.485	1516.388	0.765	17.932	12.125	7.780
2022-09-13 1:15	7038913	8.374	-127.335	12.077	1141.790	1515.971	0.764	16.179	12.077	7.679
2022-09-13 1:30	7039813	8.379	-127.583	12.026	1139.932	1515.453	0.764	15.063	12.026	7.730
2022-09-13 1:45	7040713	8.379	-127.521	11.960	1136.649	1513.647	0.763	14.411	11.960	7.736
2022-09-13 2:00	7041613	8.411	-129.282	11.881	1131.256	1509.495	0.761	17.870	11.881	7.759
2022-09-13 2:15	7042513	8.370	-127.008	11.826	1128.628	1508.109	0.760	15.299	11.826	7.750
2022-09-13 2:30	7043413	8.370	-126.941	11.758	1126.101	1507.359	0.759	14.637	11.758	7.783
2022-09-13 2:45	7044313	8.377	-127.299	11.702	1123.751	1506.339	0.759	14.322	11.702	7.771
2022-09-13 3:00	7045213	8.399	-128.493	11.623	1118.484	1502.319	0.756	14.818	11.623	7.736
2022-09-13 3:15	7046113	8.376	-127.203	11.565	1116.772	1502.247	0.756	12.711	11.565	7.755
2022-09-13 3:30	7047013	8.378	-127.275	11.486	1113.939	1501.516	0.756	11.754	11.486	7.740
2022-09-13 3:45	7047913	8.379	-127.285	11.407	1110.844	1500.385	0.755	24.638	11.407	7.755

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-13 4:00	7048813	8.417	-129.340	11.292	1106.896	1499.514	0.755	15.137	11.292	7.763
2022-09-13 4:15	7049713	8.369	-126.648	11.235	1105.142	1499.338	0.754	11.773	11.235	7.779
2022-09-13 4:30	7050613	8.357	-125.999	11.149	1102.268	1498.791	0.754	11.603	11.149	7.802
2022-09-13 4:45	7051513	8.368	-126.541	11.070	1099.710	1498.368	0.754	15.177	11.070	7.767
2022-09-13 5:00	7052413	8.403	-128.405	10.971	1095.972	1497.134	0.753	10.933	10.971	7.708
2022-09-13 5:15	7053313	8.384	-127.344	10.926	1094.226	1496.496	0.752	10.679	10.926	7.812
2022-09-13 5:30	7054213	8.379	-127.065	10.848	1092.823	1497.650	0.753	10.777	10.848	7.797
2022-09-13 5:45	7055113	8.387	-127.447	10.791	1090.962	1497.320	0.753	10.058	10.791	7.779
2022-09-13 6:00	7056013	8.424	-129.459	10.697	1086.567	1494.965	0.751	12.044	10.697	7.709
2022-09-13 6:15	7056913	8.385	-127.275	10.655	1083.518	1492.416	0.750	9.972	10.655	7.635
2022-09-13 6:30	7057813	8.381	-127.020	10.584	1080.396	1490.923	0.749	9.590	10.584	7.602
2022-09-13 6:45	7058713	8.382	-127.077	10.506	1070.957	1480.927	0.744	9.256	10.506	7.630
2022-09-13 7:00	7059613	8.408	-128.429	10.403	1077.770	1494.414	0.750	9.325	10.403	7.682
2022-09-13 7:15	7060513	8.389	-127.373	10.348	1076.947	1495.455	0.751	9.096	10.348	7.774
2022-09-13 7:30	7061413	8.392	-127.482	10.274	1075.462	1496.327	0.751	9.875	10.274	7.824
2022-09-13 7:45	7062313	8.396	-127.666	10.195	1072.927	1495.958	0.751	8.724	10.195	7.819
2022-09-13 8:00	7063213	8.439	-129.962	10.087	1071.828	1498.726	0.752	11.753	10.087	7.878
2022-09-13 8:15	7064113	8.387	-127.125	10.017	1069.669	1498.521	0.752	8.628	10.017	7.836
2022-09-13 8:30	7065013	8.393	-127.406	9.954	1067.657	1498.205	0.752	8.205	9.954	7.867
2022-09-13 8:45	7065913	8.385	-126.956	9.942	1063.014	1492.176	0.748	7.831	9.942	7.731
2022-09-13 9:00	7066813	8.412	-128.441	9.893	1059.068	1488.602	0.747	9.602	9.893	7.738
2022-09-13 9:15	7067713	8.391	-127.280	9.872	1060.482	1491.401	0.748	8.626	9.872	7.851
2022-09-13 9:30	7068613	8.394	-127.397	9.840	1060.224	1492.334	0.748	8.344	9.840	7.974
2022-09-13 9:45	7069513	8.383	-126.779	9.798	1060.768	1494.789	0.750	7.457	9.798	8.035
2022-09-13 10:00	7070413	8.426	-129.123	9.767	1060.475	1495.634	0.750	11.138	9.767	8.043
2022-09-13 10:15	7071313	8.394	-127.368	9.760	1059.903	1495.119	0.750	7.782	9.760	7.975
2022-09-13 10:30	7072213	8.387	-127.003	9.759	1058.941	1493.799	0.749	6.907	9.759	7.999
2022-09-13 10:45	7073113	8.381	-126.674	9.764	1058.690	1493.236	0.749	6.151	9.764	7.874
2022-09-13 11:00	7074013	8.404	-127.947	9.779	1058.322	1492.104	0.748	6.670	9.779	7.693
2022-09-13 11:15	7074913	8.361	-125.566	9.793	1058.811	1492.254	0.748	6.496	9.793	7.501
2022-09-13 11:30	7075813	8.355	-125.268	9.811	1059.222	1492.098	0.748	6.194	9.811	7.482
2022-09-13 11:45	7076713	8.346	-124.812	9.834	1060.955	1493.618	0.749	6.854	9.834	7.581
2022-09-13 12:00	7077613	8.421	-128.875	9.854	1063.946	1497.017	0.751	8.978	9.854	7.779
2022-09-13 12:15	7078513	8.386	-127.006	9.886	1064.752	1496.854	0.751	6.762	9.886	8.111
2022-09-13 12:30	7079413	8.354	-125.237	9.909	1067.151	1499.311	0.752	6.532	9.909	8.067
2022-09-13 12:45	7080313	8.380	-126.679	9.946	1068.056	1499.076	0.752	7.151	9.946	8.109
2022-09-13 13:00	7081213	8.420	-128.922	10.035	1073.007	1502.438	0.754	8.030	10.035	8.325
2022-09-13 13:15	7082113	8.372	-126.350	10.098	1074.852	1502.522	0.754	6.698	10.098	8.421
2022-09-13 13:30	7083013	8.330	-124.040	10.160	1079.167	1506.062	0.756	6.655	10.160	8.564
2022-09-13 13:45	7083913	8.330	-124.066	10.193	1081.219	1507.604	0.757	6.026	10.193	8.757
2022-09-13 14:00	7084813	8.451	-130.749	10.282	1085.879	1510.496	0.759	11.620	10.282	8.809
2022-09-13 14:15	7085713	8.414	-128.760	10.359	1087.846	1510.164	0.759	6.552	10.359	8.835
2022-09-13 14:30	7086613	8.431	-129.716	10.508	1092.692	1510.919	0.759	6.266	10.508	9.043
2022-09-13 14:45	7087513	8.434	-129.981	10.719	1099.626	1512.073	0.760	7.063	10.719	9.027

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-13 15:00	7088413	8.462	-131.648	10.963	1108.994	1515.259	0.762	10.931	10.963	9.143
2022-09-13 15:15	7089313	8.427	-129.766	11.090	1111.312	1513.381	0.762	9.280	11.090	9.287
2022-09-13 15:30	7090213	8.432	-130.105	11.242	1116.060	1513.854	0.762	7.964	11.242	9.484
2022-09-13 15:45	7091113	8.447	-130.982	11.327	1117.272	1512.181	0.761	7.533	11.327	9.499
2022-09-13 16:00	7092013	8.485	-133.133	11.416	1120.103	1512.538	0.762	12.364	11.416	9.607
2022-09-13 16:15	7092913	8.450	-131.223	11.484	1121.760	1512.113	0.761	8.686	11.484	9.543
2022-09-13 16:30	7093813	8.457	-131.648	11.607	1125.202	1511.969	0.762	8.917	11.607	9.925
2022-09-13 16:45	7094713	8.412	-129.266	11.727	1128.660	1511.969	0.762	7.185	11.727	9.956
2022-09-13 17:00	7095613	8.467	-132.344	11.879	1133.920	1513.132	0.763	10.746	11.879	9.889
2022-09-13 17:15	7096513	8.446	-131.195	11.960	1135.653	1512.328	0.762	9.004	11.960	10.042
2022-09-13 17:30	7097413	8.429	-130.320	12.052	1138.717	1512.848	0.763	8.652	12.052	10.150
2022-09-13 17:45	7098313	8.438	-130.878	12.164	1142.427	1513.473	0.763	7.726	12.164	10.131
2022-09-13 18:00	7099213	8.481	-133.295	12.283	1147.482	1515.624	0.764	13.536	12.283	10.115
2022-09-13 18:15	7100113	8.471	-132.768	12.358	1148.918	1514.664	0.764	8.656	12.358	10.030
2022-09-13 18:30	7101013	8.474	-132.961	12.410	1150.512	1514.778	0.764	9.306	12.410	9.866
2022-09-13 18:45	7101913	8.458	-132.117	12.445	1151.518	1514.762	0.764	7.961	12.445	9.677
2022-09-13 19:00	7102813	8.487	-133.712	12.468	1151.968	1514.471	0.764	9.786	12.468	9.657
2022-09-13 19:15	7103713	8.440	-131.149	12.470	1152.210	1514.721	0.764	10.199	12.470	9.592
2022-09-13 19:30	7104613	8.452	-131.814	12.478	1153.226	1515.760	0.765	7.788	12.478	9.668
2022-09-13 19:45	7105513	8.453	-131.867	12.480	1152.587	1514.824	0.764	7.831	12.480	9.665
2022-09-13 20:00	7106413	8.474	-133.018	12.471	1150.829	1512.871	0.763	10.445	12.471	9.436
2022-09-13 20:15	7107313	8.435	-130.854	12.453	1148.530	1510.522	0.762	7.861	12.453	9.025
2022-09-13 20:30	7108213	8.415	-129.740	12.428	1147.157	1509.676	0.761	8.152	12.428	8.860
2022-09-13 20:45	7109113	8.366	-126.989	12.334	1142.192	1506.687	0.760	10.406	12.334	8.729
2022-09-13 21:00	7110013	8.438	-130.932	12.287	1136.361	1500.775	0.757	11.170	12.287	8.742
2022-09-13 21:15	7110913	8.367	-126.984	12.201	1133.500	1500.262	0.756	11.391	12.201	8.742
2022-09-13 21:30	7111813	8.367	-126.967	12.175	1131.545	1498.635	0.755	9.521	12.175	8.821
2022-09-13 21:45	7112713	8.349	-125.940	12.078	1127.812	1497.397	0.755	10.969	12.078	8.599
2022-09-13 22:00	7113613	8.431	-130.453	12.029	1127.372	1498.651	0.755	15.514	12.029	8.574
2022-09-13 22:15	7114513	8.355	-126.250	11.965	1125.831	1499.063	0.755	11.764	11.965	8.277
2022-09-13 22:30	7115413	8.330	-124.807	11.906	1124.933	1500.114	0.756	13.025	11.906	8.177
2022-09-13 22:45	7116313	8.344	-125.544	11.846	1123.915	1501.047	0.756	11.510	11.846	8.258
2022-09-13 23:00	7117213	8.389	-127.988	11.776	1123.103	1502.641	0.757	10.536	11.776	8.164
2022-09-13 23:15	7118113	8.355	-126.154	11.747	1125.043	1506.354	0.759	11.457	11.747	8.086
2022-09-13 23:30	7119013	8.351	-125.861	11.666	1125.309	1509.844	0.761	9.377	11.666	7.794
2022-09-13 23:45	7119913	8.360	-126.328	11.565	1121.878	1509.122	0.760	8.918	11.565	7.753
2022-09-14 0:00	7120813	8.432	-130.227	11.483	1118.523	1507.793	0.759	12.184	11.483	7.715
2022-09-14 0:15	7121713	8.359	-126.171	11.378	1114.305	1506.202	0.758	10.743	11.378	7.687
2022-09-14 0:30	7122613	8.325	-124.300	11.282	1109.847	1503.879	0.757	11.175	11.282	7.554
2022-09-14 0:45	7123513	8.310	-123.391	11.194	1106.545	1502.826	0.756	10.396	11.194	7.435
2022-09-14 1:00	7124413	8.376	-127.015	11.141	1101.885	1498.583	0.754	12.508	11.141	7.351
2022-09-14 1:15	7125313	8.369	-126.626	11.102	1101.072	1498.959	0.754	9.927	11.102	7.362
2022-09-14 1:30	7126213	8.349	-125.504	11.035	1098.480	1498.063	0.753	11.223	11.035	7.073
2022-09-14 1:45	7127113	8.339	-124.922	10.960	1094.096	1495.008	0.752	12.292	10.960	6.753

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-14 2:00	7128013	8.386	-127.432	10.858	1086.865	1489.084	0.748	14.074	10.858	6.822
2022-09-14 2:15	7128913	8.330	-124.309	10.777	1083.308	1487.380	0.747	11.059	10.777	6.810
2022-09-14 2:30	7129813	8.300	-122.678	10.715	1082.622	1488.828	0.748	11.013	10.715	6.743
2022-09-14 2:45	7130713	8.297	-122.483	10.657	1081.112	1489.029	0.748	11.144	10.657	6.749
2022-09-14 3:00	7131613	8.327	-124.097	10.593	1076.285	1484.884	0.746	11.763	10.593	6.581
2022-09-14 3:15	7132513	8.324	-123.935	10.579	1076.560	1485.812	0.746	9.714	10.579	6.645
2022-09-14 3:30	7133413	8.307	-122.986	10.542	1076.342	1486.956	0.747	11.316	10.542	6.568
2022-09-14 3:45	7134313	8.280	-121.460	10.465	1074.126	1486.931	0.747	9.586	10.465	***6.209***
2022-09-14 4:00	7135214	8.346	-125.053	10.405	1071.615	1485.790	0.746	10.746	10.405	***6.233***
2022-09-14 4:15	7136114	8.285	-121.670	10.342	1068.857	1484.454	0.745	8.705	10.342	6.585
2022-09-14 4:30	7137014	8.276	-121.138	10.278	1066.577	1483.823	0.745	8.152	10.278	***6.469***
2022-09-14 4:45	7137914	8.262	-120.373	10.223	1065.495	1484.466	0.745	8.229	10.223	***6.379***
2022-09-14 5:00	7138814	8.301	-122.516	10.195	1065.220	1485.213	0.745	9.141	10.195	***6.476***
2022-09-14 5:15	7139714	8.314	-123.165	10.167	1063.888	1484.466	0.745	7.127	10.167	6.654
2022-09-14 5:30	7140614	8.285	-121.584	10.120	1062.778	1484.758	0.745	9.597	10.120	6.560
2022-09-14 5:45	7141514	8.281	-121.331	10.057	1061.606	1485.624	0.745	6.526	10.057	***6.430***
2022-09-14 6:00	7142414	8.352	-125.177	9.964	1056.916	1482.730	0.744	10.804	9.964	6.742
2022-09-14 6:15	7143314	8.309	-122.762	9.853	1050.819	1478.565	0.741	7.543	9.853	6.780
2022-09-14 6:30	7144214	8.291	-121.787	9.805	1049.467	1478.588	0.741	9.112	9.805	6.536
2022-09-14 6:45	7145114	8.286	-121.498	9.786	1049.522	1479.430	0.742	7.227	9.786	6.570
2022-09-14 7:00	7146014	8.315	-123.081	9.762	1046.083	1475.537	0.739	8.499	9.762	***6.496***
2022-09-14 7:15	7146914	8.279	-121.100	9.750	1047.375	1477.847	0.741	7.907	9.750	6.507
2022-09-14 7:30	7147814	8.263	-120.208	9.696	1046.555	1478.806	0.741	7.395	9.696	***6.344***
2022-09-14 7:45	7148714	8.250	-119.464	9.641	1045.265	1479.179	0.741	8.751	9.641	***6.128***
2022-09-14 8:00	7149614	8.293	-121.837	9.647	1048.789	1483.926	0.744	9.200	9.647	***6.072***
2022-09-14 8:15	7150514	8.261	-120.044	9.629	1048.064	1483.655	0.743	6.357	9.629	***5.624***
2022-09-14 8:30	7151414	8.243	-119.078	9.620	1047.987	1483.878	0.744	6.300	9.620	***5.608***
2022-09-14 8:45	7152314	8.278	-121.007	9.627	1043.776	1477.662	0.740	7.543	9.627	***5.921***
2022-09-14 9:00	7153214	8.287	-121.498	9.619	1042.774	1476.537	0.740	8.993	9.619	***6.047***
2022-09-14 9:15	7154114	8.280	-121.107	9.608	1042.722	1476.900	0.740	8.232	9.608	***6.125***
2022-09-14 9:30	7155014	8.256	-119.803	9.603	1043.329	1477.994	0.740	8.909	9.603	***6.169***
2022-09-14 9:45	7155914	8.247	-119.321	9.626	1046.810	1482.004	0.743	8.105	9.626	***6.341***
2022-09-14 10:00	7156814	8.311	-122.781	9.650	1049.011	1484.128	0.744	9.548	9.650	6.552
2022-09-14 10:15	7157714	8.313	-122.888	9.634	1048.043	1483.394	0.743	7.061	9.634	6.683
2022-09-14 10:30	7158614	8.293	-121.784	9.625	1046.686	1481.853	0.742	5.438	9.625	6.502
2022-09-14 10:45	7159514	8.274	-120.752	9.608	1046.197	1481.854	0.742	5.557	9.608	***6.369***
2022-09-14 11:00	7160414	8.311	-122.802	9.600	1045.563	1481.247	0.742	6.652	9.600	***6.159***
2022-09-14 11:15	7161314	8.282	-121.179	9.586	1044.605	1480.466	0.742	5.303	9.586	***6.092***
2022-09-14 11:30	7162214	8.268	-120.440	9.596	1045.011	1480.631	0.742	5.691	9.596	***5.947***
2022-09-14 11:45	7163114	8.259	-119.958	9.624	1045.784	1480.628	0.742	5.699	9.624	***5.968***
2022-09-14 12:00	7164014	8.299	-122.151	9.709	1045.161	1476.343	0.740	6.813	9.709	***6.048***
2022-09-14 12:15	7164914	8.264	-120.296	9.781	1044.610	1472.710	0.738	5.817	9.781	***6.365***
2022-09-14 12:30	7165814	8.259	-120.065	9.839	1044.773	1470.641	0.737	5.328	9.839	***6.326***
2022-09-14 12:45	7166714	8.259	-120.072	9.894	1045.075	1468.866	0.736	5.934	9.894	***6.478***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-14 13:00	7167614	8.282	-121.334	9.971	1045.989	1467.129	0.735	7.165	9.971	***6.481***
2022-09-14 13:15	7168514	8.244	-119.324	10.021	1046.737	1466.208	0.735	5.838	10.021	6.744
2022-09-14 13:30	7169414	8.237	-118.976	10.099	1048.120	1465.096	0.735	6.471	10.099	6.960
2022-09-14 13:45	7170314	8.236	-118.930	10.178	1051.647	1466.921	0.736	6.614	10.178	7.342
2022-09-14 14:00	7171214	8.315	-123.332	10.330	1055.533	1466.416	0.736	6.658	10.330	7.394
2022-09-14 14:15	7172114	8.285	-121.722	10.453	1058.429	1465.660	0.735	6.287	10.453	8.285
2022-09-14 14:30	7173014	8.295	-122.409	10.703	1063.236	1462.644	0.734	6.598	10.703	8.634
2022-09-14 14:45	7173914	8.300	-122.795	10.985	1068.435	1458.971	0.733	8.159	10.985	10.315
2022-09-14 15:00	7174814	8.334	-124.798	11.334	1075.661	1455.601	0.732	9.590	11.334	11.165
2022-09-14 15:15	7175714	8.330	-124.600	11.423	1076.844	1453.870	0.731	6.299	11.423	11.558
2022-09-14 15:30	7176614	8.311	-123.582	11.492	1077.907	1452.718	0.730	6.872	11.492	10.918
2022-09-14 15:45	7177514	8.305	-123.324	11.574	1079.979	1452.421	0.730	6.662	11.574	10.781
2022-09-14 16:00	7178414	8.379	-127.456	11.782	1084.092	1450.208	0.729	7.910	11.782	10.687
2022-09-14 16:15	7179314	8.334	-125.077	11.996	1087.906	1447.420	0.728	7.421	11.996	11.658
2022-09-14 16:30	7180214	8.313	-124.016	12.178	1091.959	1446.114	0.728	6.212	12.178	11.647
2022-09-14 16:45	7181114	8.312	-124.006	12.309	1094.731	1444.999	0.727	6.418	12.309	12.245
2022-09-14 17:00	7182014	8.365	-126.975	12.433	1097.304	1443.870	0.727	6.858	12.433	12.732
2022-09-14 17:15	7182914	8.381	-127.892	12.523	1099.975	1444.141	0.727	6.967	12.523	13.135
2022-09-14 17:30	7183814	8.362	-126.891	12.655	1103.549	1444.024	0.727	5.623	12.655	13.162
2022-09-14 17:45	7184714	8.347	-126.085	12.630	1109.970	1453.365	0.732	8.132	12.630	12.947
2022-09-14 18:00	7185614	8.434	-130.925	12.709	1110.373	1451.012	0.731	8.409	12.709	12.560
2022-09-14 18:15	7186514	8.414	-129.845	12.855	1113.534	1449.871	0.731	6.390	12.855	12.863
2022-09-14 18:30	7187414	8.362	-127.165	13.273	1121.547	1445.270	0.729	5.381	13.273	13.588
2022-09-14 18:45	7188314	8.306	-124.080	13.255	1125.089	1450.489	0.731	6.436	13.255	13.305
2022-09-14 19:00	7189214	8.421	-130.351	13.121	1131.504	1463.557	0.738	7.361	13.121	12.363
2022-09-14 19:15	7190114	8.439	-131.352	13.045	1131.957	1466.917	0.740	6.060	13.045	12.217
2022-09-14 19:30	7191014	8.421	-130.334	12.980	1134.949	1473.171	0.743	6.650	12.980	11.805
2022-09-14 19:45	7191914	8.413	-129.859	12.947	1134.008	1473.150	0.743	5.601	12.947	11.403
2022-09-14 20:00	7192814	8.396	-128.913	12.875	1134.139	1475.944	0.744	9.197	12.875	10.670
2022-09-14 20:15	7193714	8.371	-127.442	12.724	1129.704	1475.708	0.744	8.189	12.724	10.322
2022-09-14 20:30	7194614	8.354	-126.505	12.691	1127.658	1474.263	0.743	6.839	12.691	9.934
2022-09-14 20:45	7195514	8.355	-126.541	12.619	1124.234	1472.445	0.742	7.807	12.619	9.562
2022-09-14 21:00	7196414	8.347	-126.016	12.511	1120.770	1471.879	0.742	8.508	12.511	9.399
2022-09-14 21:15	7197314	8.353	-126.340	12.437	1119.930	1473.511	0.742	7.650	12.437	9.488
2022-09-14 21:30	7198214	8.331	-125.108	12.395	1119.052	1473.891	0.743	6.888	12.395	9.471
2022-09-14 21:45	7199114	8.327	-124.836	12.338	1117.593	1474.083	0.743	8.806	12.338	9.451
2022-09-14 22:00	7200014	8.370	-127.213	12.282	1115.218	1473.027	0.742	9.694	12.282	9.399
2022-09-14 22:15	7200914	8.314	-124.063	12.171	1111.382	1472.095	0.741	8.380	12.171	9.291
2022-09-14 22:30	7201814	8.318	-124.264	12.101	1107.925	1470.133	0.740	6.054	12.101	9.157
2022-09-14 22:45	7202714	8.275	-121.863	12.003	1101.046	1464.618	0.737	9.534	12.003	8.860
2022-09-14 23:00	7203614	8.314	-123.954	11.904	1093.147	1457.776	0.733	7.661	11.904	8.548
2022-09-14 23:15	7204514	8.281	-122.101	11.812	1092.655	1460.559	0.735	8.349	11.812	8.264
2022-09-14 23:30	7205414	8.282	-122.118	11.759	1092.496	1462.305	0.736	6.957	11.759	8.207
2022-09-14 23:45	7206314	8.261	-120.924	11.701	1090.775	1462.177	0.735	7.107	11.701	8.058

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-15 0:00	7207214	8.292	-122.631	11.672	1089.558	1461.643	0.735	11.877	11.672	7.771
2022-09-15 0:15	7208114	8.252	-120.430	11.611	1086.612	1459.980	0.734	10.323	11.611	7.587
2022-09-15 0:30	7209014	8.238	-119.588	11.534	1084.426	1459.934	0.734	9.155	11.534	7.545
2022-09-15 0:45	7209914	8.246	-120.044	11.467	1080.882	1457.656	0.733	9.825	11.467	7.500
2022-09-15 1:00	7210814	8.259	-120.685	11.389	1076.953	1455.287	0.731	8.844	11.389	7.341
2022-09-15 1:15	7211714	8.247	-120.049	11.328	1077.163	1457.863	0.733	9.864	11.328	7.305
2022-09-15 1:30	7212614	8.253	-120.320	11.292	1075.930	1457.539	0.732	9.470	11.292	7.235
2022-09-15 1:45	7213514	8.237	-119.421	11.216	1072.790	1456.152	0.732	7.796	11.216	7.005
2022-09-15 2:00	7214414	8.257	-120.487	11.195	1071.313	1454.933	0.731	10.505	11.195	6.730
2022-09-15 2:15	7215314	8.216	-118.215	11.113	1067.307	1452.591	0.730	7.210	11.113	6.653
2022-09-15 2:30	7216214	8.190	-116.782	11.057	1067.862	1455.488	0.731	6.536	11.057	6.566
2022-09-15 2:45	7217114	8.207	-117.669	10.995	1067.444	1457.244	0.732	7.024	10.995	6.579
2022-09-15 3:00	7218014	8.263	-120.773	10.988	1066.427	1456.117	0.731	8.378	10.988	6.638
2022-09-15 3:15	7218914	8.234	-119.119	10.929	1065.376	1456.942	0.732	8.058	10.929	6.740
2022-09-15 3:30	7219814	8.244	-119.643	10.857	1064.869	1458.994	0.733	8.729	10.857	6.891
2022-09-15 3:45	7220714	8.248	-119.865	10.863	1062.934	1456.090	0.731	7.889	10.863	7.085
2022-09-15 4:00	7221614	8.280	-121.622	10.848	1062.195	1455.675	0.731	9.764	10.848	6.899
2022-09-15 4:15	7222514	8.221	-118.380	10.775	1060.502	1456.141	0.731	8.597	10.775	6.709
2022-09-15 4:30	7223414	8.251	-120.001	10.707	1060.394	1458.562	0.732	7.139	10.707	6.725
2022-09-15 4:45	7224314	8.252	-120.046	10.728	1056.918	1453.000	0.729	10.907	10.728	6.849
2022-09-15 5:00	7225214	8.290	-122.151	10.740	1057.449	1453.261	0.729	9.842	10.740	7.414
2022-09-15 5:15	7226114	8.259	-120.394	10.696	1059.156	1457.288	0.731	8.284	10.696	7.312
2022-09-15 5:30	7227014	8.247	-119.700	10.590	1056.083	1457.128	0.731	7.242	10.590	7.128
2022-09-15 5:45	7227914	8.243	-119.438	10.441	1050.428	1455.030	0.730	7.317	10.441	6.829
2022-09-15 6:00	7228814	8.296	-122.330	10.465	1051.820	1456.045	0.730	8.386	10.465	7.008
2022-09-15 6:15	7229714	8.253	-119.991	10.454	1050.667	1454.869	0.730	6.580	10.454	6.915
2022-09-15 6:30	7230614	8.243	-119.417	10.444	1050.422	1454.933	0.730	6.049	10.444	6.726
2022-09-15 6:45	7231514	8.238	-119.159	10.461	1050.383	1454.198	0.729	5.659	10.461	6.833
2022-09-15 7:00	7232414	8.275	-121.188	10.451	1047.513	1450.616	0.728	9.330	10.451	7.009
2022-09-15 7:15	7233314	8.241	-119.305	10.424	1046.521	1450.287	0.727	7.412	10.424	6.806
2022-09-15 7:30	7234214	8.238	-119.133	10.399	1045.626	1449.982	0.727	7.131	10.399	6.609
2022-09-15 7:45	7235114	8.242	-119.343	10.407	1046.245	1450.557	0.727	6.784	10.407	6.533
2022-09-15 8:00	7236014	8.269	-120.816	10.413	1048.199	1453.028	0.729	10.775	10.413	6.597
2022-09-15 8:15	7236914	8.240	-119.262	10.421	1048.536	1453.207	0.729	7.845	10.421	6.769
2022-09-15 8:30	7237814	8.205	-117.323	10.419	1049.942	1455.211	0.730	6.812	10.419	6.710
2022-09-15 8:45	7238714	8.221	-118.222	10.405	1049.869	1455.668	0.730	6.577	10.405	6.763
2022-09-15 9:00	7239614	8.275	-121.176	10.374	1045.530	1450.826	0.728	10.351	10.374	6.973
2022-09-15 9:15	7240514	8.258	-120.203	10.360	1044.027	1449.292	0.727	7.987	10.360	7.264
2022-09-15 9:30	7241414	8.248	-119.686	10.357	1044.555	1450.147	0.727	8.240	10.357	7.125
2022-09-15 9:45	7242314	8.237	-119.047	10.361	1044.812	1450.340	0.727	7.297	10.361	7.030
2022-09-15 10:00	7243214	8.277	-121.243	10.366	1044.574	1449.797	0.727	8.506	10.366	6.996
2022-09-15 10:15	7244114	8.238	-119.100	10.350	1043.658	1449.148	0.727	6.180	10.350	6.805
2022-09-15 10:30	7245014	8.230	-118.701	10.368	1044.029	1448.978	0.727	6.457	10.368	6.670
2022-09-15 10:45	7245914	8.200	-117.049	10.411	1046.691	1451.013	0.728	5.271	10.411	6.515

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-15 11:00	7246814	8.257	-120.215	10.467	1050.363	1453.944	0.729	6.849	10.467	6.553
2022-09-15 11:15	7247714	8.254	-120.087	10.513	1051.709	1454.035	0.729	6.482	10.513	7.409
2022-09-15 11:30	7248614	8.241	-119.395	10.569	1054.066	1455.153	0.730	5.785	10.569	7.585
2022-09-15 11:45	7249514	8.251	-119.965	10.630	1056.786	1456.557	0.731	4.816	10.630	7.808
2022-09-15 12:00	7250414	8.307	-123.045	10.718	1062.197	1460.650	0.733	6.751	10.718	7.676
2022-09-15 12:15	7251314	8.279	-121.505	10.757	1062.271	1459.230	0.733	4.837	10.757	7.993
2022-09-15 12:30	7252214	8.268	-120.943	10.816	1063.861	1459.180	0.733	5.330	10.816	8.158
2022-09-15 12:45	7253114	8.264	-120.783	10.864	1065.567	1459.678	0.733	4.358	10.864	8.523
2022-09-15 13:00	7254014	8.310	-123.291	10.948	1068.647	1460.689	0.734	6.310	10.948	8.775
2022-09-15 13:15	7254914	8.294	-122.433	10.983	1068.683	1459.400	0.733	4.802	10.983	8.526
2022-09-15 13:30	7255814	8.282	-121.810	11.047	1070.437	1459.378	0.733	3.899	11.047	8.848
2022-09-15 13:45	7256714	8.279	-121.672	11.096	1071.834	1459.416	0.733	4.040	11.096	9.403
2022-09-15 14:00	7257614	8.336	-124.829	11.149	1073.814	1460.094	0.734	5.991	11.149	9.553
2022-09-15 14:15	7258514	8.325	-124.199	11.156	1073.195	1458.982	0.733	4.524	11.156	9.219
2022-09-15 14:30	7259414	8.297	-122.669	11.168	1072.161	1457.126	0.732	5.150	11.168	9.304
2022-09-15 14:45	7260314	8.281	-121.815	11.198	1074.270	1458.859	0.733	4.674	11.198	9.262
2022-09-15 15:00	7261214	8.319	-123.975	11.299	1076.424	1457.940	0.733	5.937	11.299	8.465
2022-09-15 15:15	7262114	8.278	-121.741	11.335	1077.014	1457.387	0.732	3.817	11.335	8.454
2022-09-15 15:30	7263014	8.299	-122.867	11.347	1079.159	1459.835	0.734	5.766	11.347	8.397
2022-09-15 15:45	7263914	8.308	-123.358	11.346	1079.333	1460.112	0.734	6.185	11.346	9.327
2022-09-15 16:00	7264814	8.367	-126.638	11.356	1081.372	1462.494	0.735	11.651	11.356	9.585
2022-09-15 16:15	7265714	8.335	-124.848	11.361	1081.547	1462.529	0.735	7.307	11.361	9.811
2022-09-15 16:30	7266615	8.320	-124.061	11.386	1082.496	1462.891	0.735	6.654	11.386	9.697
2022-09-15 16:45	7267515	8.309	-123.467	11.423	1083.605	1462.988	0.736	5.670	11.423	9.679
2022-09-15 17:00	7268415	8.337	-125.010	11.487	1085.802	1463.523	0.736	6.494	11.487	9.689
2022-09-15 17:15	7269315	8.325	-124.390	11.512	1086.812	1463.962	0.736	5.018	11.512	10.175
2022-09-15 17:30	7270215	8.306	-123.360	11.544	1088.669	1465.251	0.737	4.732	11.544	10.009
2022-09-15 17:45	7271115	8.312	-123.706	11.586	1090.088	1465.584	0.737	4.187	11.586	9.989
2022-09-15 18:00	7272015	8.372	-127.037	11.668	1094.533	1468.458	0.739	5.611	11.668	9.874
2022-09-15 18:15	7272915	8.350	-125.816	11.701	1094.981	1467.828	0.738	3.502	11.701	10.251
2022-09-15 18:30	7273815	8.318	-124.097	11.754	1096.444	1467.796	0.739	4.125	11.754	10.492
2022-09-15 18:45	7274715	8.320	-124.233	11.797	1098.094	1468.384	0.739	3.693	11.797	10.284
2022-09-15 19:00	7275615	8.388	-127.940	11.748	1098.431	1470.676	0.740	12.231	11.748	9.983
2022-09-15 19:15	7276515	8.320	-124.161	11.640	1101.971	1479.489	0.745	10.617	11.640	9.956
2022-09-15 19:30	7277415	8.284	-122.108	11.509	1102.745	1485.551	0.748	7.024	11.509	9.362
2022-09-15 19:45	7278315	8.268	-121.174	11.355	1099.988	1487.713	0.748	6.507	11.355	8.919
2022-09-15 20:00	7279215	8.306	-123.191	11.197	1108.961	1506.014	0.758	8.372	11.197	8.383
2022-09-15 20:15	7280115	8.267	-121.076	11.179	1115.975	1516.238	0.763	5.258	11.179	8.117
2022-09-15 20:30	7281015	8.272	-121.346	11.209	1121.186	1522.122	0.766	4.434	11.209	8.048
2022-09-15 20:45	7281915	8.303	-123.036	11.158	1124.881	1529.172	0.770	5.716	11.158	8.371
2022-09-15 21:00	7282815	8.368	-126.522	11.037	1123.778	1532.484	0.771	6.374	11.037	8.599
2022-09-15 21:15	7283715	8.327	-124.252	10.996	1120.938	1530.230	0.770	4.712	10.996	8.593
2022-09-15 21:30	7284615	8.302	-122.883	10.986	1121.649	1531.629	0.771	4.567	10.986	8.521
2022-09-15 21:45	7285515	8.302	-122.902	11.020	1122.675	1531.634	0.771	4.068	11.020	8.513

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-15 22:00	7286415	8.373	-126.843	11.104	1121.893	1527.248	0.769	17.096	11.104	8.389
2022-09-15 22:15	7287315	8.352	-125.680	11.134	1119.551	1522.863	0.767	10.190	11.134	8.804
2022-09-15 22:30	7288215	8.365	-126.419	11.139	1114.764	1516.172	0.763	6.097	11.139	8.861
2022-09-15 22:45	7289115	8.374	-126.865	11.102	1108.722	1509.380	0.759	7.608	11.102	8.843
2022-09-15 23:00	7290015	8.404	-128.489	11.038	1096.382	1495.091	0.752	8.425	11.038	8.781
2022-09-15 23:15	7290915	8.370	-126.626	11.005	1096.475	1496.484	0.752	6.228	11.005	8.700
2022-09-15 23:30	7291815	8.364	-126.243	10.953	1095.059	1496.592	0.752	5.991	10.953	8.593
2022-09-15 23:45	7292715	8.360	-126.016	10.894	1091.334	1493.794	0.751	6.034	10.894	8.463
2022-09-16 0:00	7293615	8.395	-127.919	10.817	1085.456	1488.760	0.748	10.327	10.817	8.397
2022-09-16 0:15	7294515	8.340	-124.862	10.734	1080.487	1485.163	0.746	8.497	10.734	8.322
2022-09-16 0:30	7295415	8.337	-124.660	10.664	1077.180	1483.340	0.745	8.146	10.664	8.496
2022-09-16 0:45	7296315	8.327	-124.114	10.604	1075.907	1483.935	0.745	7.467	10.604	8.450
2022-09-16 1:00	7297215	8.366	-126.169	10.534	1068.224	1476.048	0.741	8.074	10.534	8.332
2022-09-16 1:15	7298115	8.336	-124.524	10.492	1068.646	1478.277	0.742	6.027	10.492	8.370
2022-09-16 1:30	7299015	8.330	-124.183	10.434	1066.517	1477.596	0.742	6.134	10.434	8.249
2022-09-16 1:45	7299915	8.334	-124.359	10.373	1064.250	1476.851	0.741	5.455	10.373	8.254
2022-09-16 2:00	7300815	8.373	-126.443	10.297	1061.123	1475.497	0.740	11.251	10.297	8.227
2022-09-16 2:15	7301715	8.328	-123.992	10.216	1058.005	1474.294	0.740	6.474	10.216	7.992
2022-09-16 2:30	7302615	8.322	-123.591	10.136	1054.265	1472.255	0.738	6.962	10.136	8.175
2022-09-16 2:45	7303515	8.318	-123.346	10.064	1052.258	1472.268	0.738	7.472	10.064	8.190
2022-09-16 3:00	7304415	8.361	-125.680	9.987	1047.060	1468.024	0.736	11.795	9.987	8.149
2022-09-16 3:15	7305315	8.341	-124.543	9.922	1046.349	1469.567	0.737	7.930	9.922	8.252
2022-09-16 3:30	7306215	8.313	-123.024	9.851	1044.317	1469.522	0.736	7.878	9.851	8.074
2022-09-16 3:45	7307115	8.322	-123.477	9.786	1042.347	1469.324	0.736	7.673	9.786	8.065
2022-09-16 4:00	7308015	8.402	-127.759	9.703	1036.175	1463.888	0.733	9.849	9.703	8.121
2022-09-16 4:15	7308915	8.342	-124.507	9.631	1033.777	1463.347	0.733	7.685	9.631	8.252
2022-09-16 4:30	7309815	8.337	-124.166	9.564	1032.392	1464.023	0.733	7.042	9.564	8.243
2022-09-16 4:45	7310715	8.332	-123.854	9.487	1030.217	1463.985	0.733	8.297	9.487	8.151
2022-09-16 5:00	7311615	8.386	-126.772	9.391	1027.494	1463.957	0.733	13.425	9.391	8.217
2022-09-16 5:15	7312515	8.363	-125.525	9.350	1027.252	1465.222	0.733	12.320	9.350	8.364
2022-09-16 5:30	7313415	8.327	-123.525	9.282	1025.830	1465.909	0.734	8.083	9.282	8.086
2022-09-16 5:45	7314315	8.339	-124.109	9.213	1023.859	1465.847	0.733	9.822	9.213	8.089
2022-09-16 6:00	7315215	8.397	-127.261	9.110	1020.675	1465.440	0.733	12.287	9.110	7.925
2022-09-16 6:15	7316115	8.364	-125.430	9.052	1018.480	1464.594	0.732	8.816	9.052	8.291
2022-09-16 6:30	7317015	8.351	-124.691	9.021	1017.559	1464.548	0.732	8.621	9.021	8.246
2022-09-16 6:45	7317915	8.365	-125.470	8.998	1016.484	1463.912	0.732	9.092	8.998	8.196
2022-09-16 7:00	7318815	8.393	-126.958	8.976	1013.428	1460.385	0.730	10.572	8.976	8.056
2022-09-16 7:15	7319715	8.352	-124.743	8.949	1012.515	1460.162	0.730	7.601	8.949	7.974
2022-09-16 7:30	7320615	8.353	-124.748	8.889	1010.432	1459.564	0.729	6.876	8.889	7.944
2022-09-16 7:45	7321515	8.344	-124.242	8.799	1010.121	1462.755	0.731	8.303	8.799	8.076
2022-09-16 8:00	7322415	8.401	-127.277	8.731	1009.068	1463.993	0.731	11.717	8.731	8.142
2022-09-16 8:15	7323315	8.363	-125.213	8.707	1008.160	1463.619	0.731	8.216	8.707	8.226
2022-09-16 8:30	7324215	8.364	-125.265	8.690	1007.618	1463.530	0.731	7.552	8.690	8.240
2022-09-16 8:45	7325115	8.357	-124.888	8.661	1007.751	1464.908	0.732	8.841	8.661	8.039

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-16 9:00	7326015	8.404	-127.406	8.647	1007.925	1465.718	0.732	10.127	8.647	8.137
2022-09-16 9:15	7326915	8.386	-126.417	8.642	1007.333	1465.066	0.732	7.576	8.642	8.430
2022-09-16 9:30	7327815	8.381	-126.159	8.644	1007.658	1465.485	0.732	6.779	8.644	8.426
2022-09-16 9:45	7328715	8.382	-126.228	8.667	1008.063	1465.111	0.732	7.854	8.667	8.545
2022-09-16 10:00	7329615	8.438	-129.266	8.702	1008.924	1464.965	0.732	11.208	8.702	8.574
2022-09-16 10:15	7330515	8.394	-126.886	8.727	1008.846	1463.804	0.731	7.002	8.727	8.586
2022-09-16 10:30	7331415	8.380	-126.159	8.760	1008.948	1462.644	0.731	6.772	8.760	8.587
2022-09-16 10:45	7332315	8.375	-125.890	8.786	1009.731	1462.720	0.731	5.823	8.786	8.566
2022-09-16 11:00	7333215	8.413	-128.000	8.828	1011.338	1463.358	0.731	7.776	8.828	8.480
2022-09-16 11:15	7334115	8.387	-126.591	8.861	1012.320	1463.447	0.731	6.172	8.861	8.680
2022-09-16 11:30	7335015	8.382	-126.340	8.905	1013.872	1463.883	0.732	6.307	8.905	8.663
2022-09-16 11:45	7335915	8.372	-125.818	8.962	1015.441	1463.870	0.732	5.725	8.962	8.623
2022-09-16 12:00	7336815	8.440	-129.538	9.024	1017.050	1463.669	0.732	8.632	9.024	8.774
2022-09-16 12:15	7337715	8.393	-126.998	9.047	1017.866	1463.934	0.732	5.928	9.047	8.795
2022-09-16 12:30	7338615	8.387	-126.691	9.094	1021.246	1466.894	0.734	4.903	9.094	8.828
2022-09-16 12:45	7339515	8.381	-126.379	9.137	1023.318	1468.130	0.734	4.904	9.137	8.896
2022-09-16 13:00	7340415	8.433	-129.225	9.193	1026.122	1469.912	0.735	8.003	9.193	9.053
2022-09-16 13:15	7341315	8.425	-128.832	9.235	1026.690	1469.044	0.735	5.936	9.235	9.401
2022-09-16 13:30	7342215	8.415	-128.322	9.293	1028.799	1469.707	0.736	5.425	9.293	9.416
2022-09-16 13:45	7343115	8.398	-127.430	9.355	1031.498	1471.078	0.736	5.471	9.355	9.458
2022-09-16 14:00	7344015	8.475	-131.655	9.435	1035.892	1474.134	0.738	8.238	9.435	9.358
2022-09-16 14:15	7344915	8.434	-129.416	9.482	1036.784	1473.533	0.738	5.407	9.482	9.429
2022-09-16 14:30	7345815	8.446	-130.091	9.547	1038.853	1473.863	0.738	5.048	9.547	9.514
2022-09-16 14:45	7346715	8.456	-130.665	9.610	1040.918	1474.286	0.739	4.977	9.610	9.446
2022-09-16 15:00	7347615	8.506	-133.455	9.707	1044.182	1475.045	0.739	7.580	9.707	9.551
2022-09-16 15:15	7348515	8.468	-131.431	9.761	1044.302	1473.047	0.738	5.242	9.761	9.772
2022-09-16 15:30	7349415	8.464	-131.228	9.839	1046.444	1472.987	0.738	5.381	9.839	9.645
2022-09-16 15:45	7350315	8.455	-130.761	9.925	1052.543	1478.167	0.741	5.519	9.925	9.703
2022-09-16 16:00	7351215	8.512	-133.963	10.045	1053.419	1474.618	0.739	7.006	10.045	9.955
2022-09-16 16:15	7352115	8.476	-132.015	10.123	1054.510	1473.104	0.739	5.920	10.123	10.161
2022-09-16 16:30	7353015	8.478	-132.139	10.189	1056.192	1472.861	0.739	5.305	10.189	10.187
2022-09-16 16:45	7353915	8.488	-132.709	10.245	1056.403	1470.943	0.738	7.792	10.245	10.350
2022-09-16 17:00	7354815	8.540	-135.539	10.241	1057.427	1472.532	0.739	9.760	10.241	10.304
2022-09-16 17:15	7355715	8.514	-134.165	10.242	1057.979	1473.254	0.739	7.562	10.242	10.247
2022-09-16 17:30	7356615	8.503	-133.529	10.224	1058.764	1475.074	0.740	6.068	10.224	10.185
2022-09-16 17:45	7357515	8.498	-133.245	10.178	1059.203	1477.493	0.741	5.900	10.178	10.082
2022-09-16 18:00	7358415	8.580	-137.722	10.160	1062.229	1482.405	0.744	9.906	10.160	10.144
2022-09-16 18:15	7359315	8.559	-136.576	10.231	1064.960	1483.401	0.744	5.848	10.231	10.295
2022-09-16 18:30	7360215	8.567	-137.081	10.369	1067.100	1480.948	0.743	5.791	10.369	10.315
2022-09-16 18:45	7361115	8.566	-137.079	10.471	1067.166	1477.040	0.741	4.956	10.471	10.233
2022-09-16 19:00	7362015	8.584	-138.142	10.622	1066.267	1469.959	0.738	7.704	10.622	10.084
2022-09-16 19:15	7362915	8.533	-135.379	10.676	1066.938	1468.792	0.737	5.131	10.676	9.892
2022-09-16 19:30	7363815	8.518	-134.556	10.705	1065.562	1465.749	0.736	5.088	10.705	9.539
2022-09-16 19:45	7364715	8.487	-132.914	10.748	1061.024	1457.895	0.732	11.593	10.748	9.643

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-16 20:00	7365615	8.502	-133.736	10.735	1058.977	1455.576	0.731	12.466	10.735	9.531
2022-09-16 20:15	7366515	8.446	-130.661	10.707	1056.406	1453.106	0.729	10.163	10.707	9.478
2022-09-16 20:30	7367415	8.432	-129.876	10.674	1052.882	1449.493	0.727	9.671	10.674	9.385
2022-09-16 20:45	7368315	8.419	-129.123	10.644	1048.822	1445.070	0.725	11.500	10.644	9.297
2022-09-16 21:00	7369215	8.442	-130.374	10.625	1048.409	1445.196	0.725	16.103	10.625	9.226
2022-09-16 21:15	7370115	8.401	-128.148	10.621	1046.776	1443.106	0.724	15.806	10.621	9.142
2022-09-16 21:30	7371015	8.393	-127.721	10.618	1044.881	1440.603	0.723	15.313	10.618	9.039
2022-09-16 21:45	7371915	8.387	-127.373	10.614	1043.287	1438.546	0.721	18.646	10.614	8.964
2022-09-16 22:00	7372815	8.413	-128.798	10.618	1042.930	1437.923	0.721	29.133	10.618	8.843
2022-09-16 22:15	7373715	8.376	-126.803	10.623	1041.311	1435.485	0.720	20.887	10.623	8.813
2022-09-16 22:30	7374615	8.371	-126.500	10.633	1040.986	1434.663	0.719	22.207	10.633	8.761
2022-09-16 22:45	7375516	8.367	-126.288	10.643	1041.570	1435.099	0.720	22.678	10.643	8.697
2022-09-16 23:00	7376416	8.396	-127.885	10.651	1040.841	1433.813	0.719	28.936	10.651	8.657
2022-09-16 23:15	7377316	8.357	-125.756	10.652	1039.130	1431.396	0.718	25.164	10.652	8.583
2022-09-16 23:30	7378216	8.354	-125.566	10.654	1039.551	1431.913	0.718	27.553	10.654	8.524
2022-09-16 23:45	7379116	8.350	-125.372	10.654	1039.421	1431.745	0.718	27.934	10.654	8.502
2022-09-17 0:00	7380016	8.386	-127.347	10.653	1039.630	1432.071	0.718	38.376	10.653	8.461
2022-09-17 0:15	7380916	8.347	-125.210	10.647	1038.437	1430.634	0.717	25.404	10.647	8.417
2022-09-17 0:30	7381816	8.344	-125.036	10.645	1037.772	1429.803	0.717	25.428	10.645	8.396
2022-09-17 0:45	7382716	8.344	-125.017	10.643	1036.868	1428.634	0.716	27.093	10.643	8.395
2022-09-17 1:00	7383616	8.380	-126.996	10.638	1036.618	1428.459	0.716	27.722	10.638	8.346
2022-09-17 1:15	7384516	8.341	-124.843	10.635	1035.452	1426.968	0.715	24.520	10.635	8.334
2022-09-17 1:30	7385416	8.340	-124.829	10.630	1034.541	1425.920	0.715	24.325	10.630	8.284
2022-09-17 1:45	7386316	8.339	-124.762	10.621	1033.379	1424.631	0.714	26.118	10.621	8.286
2022-09-17 2:00	7387216	8.377	-126.801	10.611	1033.952	1425.821	0.715	29.432	10.611	8.234
2022-09-17 2:15	7388116	8.345	-125.093	10.594	1032.371	1424.255	0.714	25.698	10.594	8.265
2022-09-17 2:30	7389016	8.347	-125.148	10.576	1029.808	1421.399	0.712	27.099	10.576	8.239
2022-09-17 2:45	7389916	8.347	-125.179	10.561	1029.989	1422.214	0.713	25.596	10.561	8.196
2022-09-17 3:00	7390816	8.383	-127.122	10.545	1030.076	1422.942	0.713	32.603	10.545	8.197
2022-09-17 3:15	7391716	8.347	-125.144	10.531	1029.389	1422.502	0.713	27.627	10.531	8.117
2022-09-17 3:30	7392616	8.345	-125.022	10.516	1029.021	1422.555	0.713	26.089	10.516	8.105
2022-09-17 3:45	7393516	8.346	-125.065	10.501	1028.178	1421.970	0.713	27.770	10.501	8.084
2022-09-17 4:00	7394416	8.385	-127.227	10.485	1028.411	1422.886	0.713	40.215	10.485	8.083
2022-09-17 4:15	7395316	8.347	-125.122	10.471	1026.699	1421.027	0.712	30.013	10.471	8.071
2022-09-17 4:30	7396216	8.348	-125.175	10.458	1025.699	1420.135	0.712	30.198	10.458	8.044
2022-09-17 4:45	7397116	8.349	-125.201	10.445	1024.568	1419.053	0.711	32.305	10.445	8.037
2022-09-17 5:00	7398016	8.382	-127.010	10.429	1023.659	1418.397	0.711	37.363	10.429	7.997
2022-09-17 5:15	7398916	8.352	-125.356	10.412	1021.995	1416.760	0.710	38.817	10.412	8.024
2022-09-17 5:30	7399816	8.353	-125.413	10.393	1020.488	1415.366	0.709	36.782	10.393	8.010
2022-09-17 5:45	7400716	8.353	-125.420	10.370	1018.346	1413.270	0.708	35.202	10.370	7.996
2022-09-17 6:00	7401616	8.392	-127.537	10.345	1017.138	1412.527	0.707	61.028	10.345	8.013
2022-09-17 6:15	7402516	8.356	-125.566	10.326	1016.205	1411.926	0.707	35.272	10.326	8.010
2022-09-17 6:30	7403416	8.359	-125.704	10.304	1015.190	1411.334	0.707	36.823	10.304	7.985
2022-09-17 6:45	7404316	8.360	-125.766	10.278	1013.483	1409.929	0.706	37.975	10.278	7.981

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-17 7:00	7405216	8.397	-127.757	10.250	1011.725	1408.537	0.705	46.923	10.250	7.982
2022-09-17 7:15	7406116	8.350	-125.201	10.236	1009.500	1405.978	0.704	42.898	10.236	7.977
2022-09-17 7:30	7407016	8.343	-124.812	10.215	1008.407	1405.246	0.703	46.473	10.215	7.937
2022-09-17 7:45	7407916	8.339	-124.545	10.191	1006.866	1403.991	0.703	51.143	10.191	7.990
2022-09-17 8:00	7408816	8.386	-127.118	10.168	1006.359	1404.157	0.703	65.857	10.168	7.948
2022-09-17 8:15	7409716	8.368	-126.116	10.141	1004.566	1402.639	0.702	56.420	10.141	8.000
2022-09-17 8:30	7410616	8.370	-126.200	10.120	1001.916	1399.724	0.700	59.691	10.120	8.056
2022-09-17 8:45	7411516	8.373	-126.393	10.090	998.550	1396.142	0.698	59.298	10.090	8.080
2022-09-17 9:00	7412416	8.410	-128.369	10.063	992.539	1388.748	0.695	63.185	10.063	8.089
2022-09-17 9:15	7413316	8.377	-126.588	10.047	992.301	1388.988	0.695	57.320	10.047	8.061
2022-09-17 9:30	7414216	8.380	-126.729	10.038	990.122	1386.289	0.693	57.912	10.038	8.069
2022-09-17 9:45	7415116	8.384	-126.953	10.019	988.251	1384.364	0.692	59.269	10.019	8.135
2022-09-17 10:00	7416016	8.423	-129.056	9.999	985.139	1380.734	0.690	67.303	9.999	8.186
2022-09-17 10:15	7416916	8.390	-127.232	9.985	985.229	1381.403	0.691	54.817	9.985	8.207
2022-09-17 10:30	7417816	8.395	-127.516	9.973	985.909	1382.775	0.691	54.679	9.973	8.259
2022-09-17 10:45	7418716	8.398	-127.676	9.961	985.534	1382.712	0.691	50.076	9.961	8.276
2022-09-17 11:00	7419616	8.435	-129.681	9.944	984.264	1381.570	0.691	55.618	9.944	8.306
2022-09-17 11:15	7420516	8.389	-127.192	9.936	982.460	1379.323	0.689	52.311	9.936	8.292
2022-09-17 11:30	7421416	8.388	-127.130	9.927	983.384	1380.963	0.690	49.226	9.927	8.326
2022-09-17 11:45	7422316	8.398	-127.645	9.914	982.378	1380.013	0.690	46.331	9.914	8.353
2022-09-17 12:00	7423216	8.441	-130.022	9.896	980.361	1377.838	0.689	56.561	9.896	8.363
2022-09-17 12:15	7424116	8.416	-128.632	9.889	980.392	1378.139	0.689	45.986	9.889	8.478
2022-09-17 12:30	7425016	8.422	-128.939	9.888	978.450	1375.449	0.687	46.003	9.888	8.522
2022-09-17 12:45	7425916	8.428	-129.259	9.881	977.342	1374.176	0.687	44.610	9.881	8.566
2022-09-17 13:00	7426816	8.464	-131.216	9.871	974.122	1370.016	0.684	49.898	9.871	8.588
2022-09-17 13:15	7427716	8.430	-129.380	9.861	971.368	1366.507	0.683	43.595	9.861	8.663
2022-09-17 13:30	7428616	8.436	-129.714	9.858	970.413	1365.260	0.682	44.306	9.858	8.679
2022-09-17 13:45	7429516	8.441	-129.979	9.853	971.220	1366.578	0.683	44.405	9.853	8.691
2022-09-17 14:00	7430416	8.482	-132.201	9.856	971.395	1366.734	0.683	54.060	9.856	8.702
2022-09-17 14:15	7431316	8.443	-130.103	9.859	970.252	1364.984	0.682	49.510	9.859	8.757
2022-09-17 14:30	7432216	8.448	-130.363	9.860	968.997	1363.202	0.681	48.623	9.860	8.793
2022-09-17 14:45	7433116	8.451	-130.541	9.853	966.047	1359.300	0.679	44.776	9.853	8.813
2022-09-17 15:00	7434016	8.490	-132.656	9.854	962.271	1353.959	0.676	53.581	9.854	8.821
2022-09-17 15:15	7434916	8.449	-130.410	9.858	960.355	1351.102	0.675	47.157	9.858	8.822
2022-09-17 15:30	7435816	8.454	-130.715	9.860	960.681	1351.492	0.675	49.346	9.860	8.875
2022-09-17 15:45	7436716	8.447	-130.324	9.863	960.288	1350.853	0.674	48.807	9.863	8.845
2022-09-17 16:00	7437616	8.494	-132.868	9.869	958.909	1348.674	0.673	56.129	9.869	8.798
2022-09-17 16:15	7438516	8.468	-131.476	9.874	956.262	1344.763	0.671	49.870	9.874	8.885
2022-09-17 16:30	7439416	8.471	-131.609	9.872	955.747	1344.117	0.671	52.632	9.872	8.929
2022-09-17 16:45	7440316	8.473	-131.743	9.867	954.846	1343.031	0.670	51.178	9.867	8.913
2022-09-17 17:00	7441216	8.499	-133.166	9.865	953.750	1341.583	0.670	58.719	9.865	8.812
2022-09-17 17:15	7442116	8.456	-130.806	9.860	952.809	1340.415	0.669	50.358	9.860	8.738
2022-09-17 17:30	7443016	8.459	-130.987	9.860	951.227	1338.196	0.668	51.314	9.860	8.705
2022-09-17 17:45	7443916	8.466	-131.371	9.859	948.937	1335.001	0.666	52.158	9.859	8.757

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-17 18:00	7444816	8.508	-133.641	9.860	946.188	1331.122	0.664	60.687	9.860	8.752
2022-09-17 18:15	7445716	8.460	-131.006	9.856	944.422	1328.756	0.663	51.393	9.856	8.829
2022-09-17 18:30	7446616	8.456	-130.825	9.859	942.322	1325.716	0.661	51.591	9.859	8.815
2022-09-17 18:45	7447516	8.464	-131.238	9.858	940.910	1323.751	0.660	49.272	9.858	8.824
2022-09-17 19:00	7448416	8.492	-132.775	9.858	938.394	1320.208	0.659	55.542	9.858	8.801
2022-09-17 19:15	7449316	8.459	-130.954	9.860	937.997	1319.604	0.658	46.749	9.860	8.756
2022-09-17 19:30	7450216	8.446	-130.229	9.859	938.733	1320.669	0.659	45.787	9.859	8.683
2022-09-17 19:45	7451116	8.446	-130.231	9.856	937.602	1319.187	0.658	44.626	9.856	8.535
2022-09-17 20:00	7452016	8.483	-132.277	9.849	934.333	1314.818	0.656	57.419	9.849	8.460
2022-09-17 20:15	7452916	8.436	-129.683	9.845	933.327	1313.565	0.655	46.515	9.845	8.527
2022-09-17 20:30	7453816	8.425	-129.120	9.838	932.629	1312.798	0.655	44.354	9.838	8.483
2022-09-17 20:45	7454716	8.425	-129.089	9.825	931.662	1311.898	0.654	44.176	9.825	8.564
2022-09-17 21:00	7455616	8.454	-130.672	9.819	930.157	1310.003	0.653	47.272	9.819	8.517
2022-09-17 21:15	7456516	8.424	-129.054	9.816	930.224	1310.207	0.653	36.560	9.816	8.230
2022-09-17 21:30	7457416	8.415	-128.558	9.807	930.508	1310.926	0.654	37.122	9.807	8.203
2022-09-17 21:45	7458316	8.416	-128.582	9.798	929.919	1310.392	0.653	35.707	9.798	8.175
2022-09-17 22:00	7459216	8.448	-130.315	9.790	927.162	1306.809	0.651	57.757	9.790	8.184
2022-09-17 22:15	7460116	8.402	-127.814	9.783	926.977	1306.779	0.651	51.442	9.783	8.386
2022-09-17 22:30	7461016	8.400	-127.726	9.777	926.233	1305.958	0.651	44.971	9.777	8.309
2022-09-17 22:45	7461916	8.393	-127.323	9.768	925.146	1304.729	0.650	39.454	9.768	8.288
2022-09-17 23:00	7462816	8.421	-128.839	9.757	922.995	1302.101	0.649	44.845	9.757	8.178
2022-09-17 23:15	7463716	8.385	-126.865	9.754	923.866	1303.409	0.650	35.238	9.754	8.160
2022-09-17 23:30	7464616	8.374	-126.300	9.751	925.432	1305.731	0.651	32.757	9.751	8.002
2022-09-17 23:45	7465516	8.371	-126.104	9.740	920.794	1299.588	0.648	33.400	9.740	8.051
2022-09-18 0:00	7466416	8.408	-128.105	9.726	917.158	1294.936	0.645	43.232	9.726	8.198
2022-09-18 0:15	7467316	8.360	-125.499	9.718	914.267	1291.138	0.643	36.452	9.718	8.215
2022-09-18 0:30	7468216	8.361	-125.558	9.709	906.514	1280.475	0.638	34.581	9.709	8.241
2022-09-18 0:45	7469116	8.348	-124.822	9.709	901.586	1273.535	0.634	32.977	9.709	8.148
2022-09-18 1:00	7470016	8.363	-125.663	9.719	894.312	1262.918	0.629	42.964	9.719	7.827
2022-09-18 1:15	7470916	8.330	-123.887	9.736	894.492	1262.607	0.628	26.066	9.736	7.659
2022-09-18 1:30	7471816	8.319	-123.277	9.758	893.852	1260.929	0.628	22.392	9.758	7.484
2022-09-18 1:45	7472716	8.302	-122.356	9.784	889.548	1253.978	0.624	24.790	9.784	7.360
2022-09-18 2:00	7473616	8.341	-124.519	9.837	867.272	1220.860	0.607	33.516	9.837	7.483
2022-09-18 2:15	7474516	8.272	-120.769	9.888	859.918	1208.845	0.601	22.908	9.888	7.468
2022-09-18 2:30	7475416	8.272	-120.797	9.981	837.861	1174.891	0.583	21.010	9.981	7.521
2022-09-18 2:45	7476316	8.278	-121.193	10.071	807.476	1129.567	0.560	19.301	10.071	7.562
2022-09-18 3:00	7477216	8.307	-122.786	10.162	779.783	1088.170	0.539	23.334	10.162	7.450
2022-09-18 3:15	7478116	8.276	-121.160	10.207	779.630	1086.655	0.538	17.622	10.207	7.393
2022-09-18 3:30	7479016	8.261	-120.318	10.257	775.232	1079.092	0.534	18.870	10.257	7.315
2022-09-18 3:45	7479916	8.256	-120.080	10.301	774.131	1076.302	0.533	18.885	10.301	7.075
2022-09-18 4:00	7480816	8.303	-122.666	10.320	786.604	1093.106	0.542	26.665	10.320	7.084
2022-09-18 4:15	7481716	8.269	-120.795	10.313	786.258	1092.829	0.541	23.907	10.313	7.068
2022-09-18 4:30	7482616	8.276	-121.195	10.316	786.648	1093.282	0.542	21.710	10.316	7.073
2022-09-18 4:45	7483517	8.263	-120.466	10.331	785.871	1091.756	0.541	18.795	10.331	6.912

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-18 5:00	7484417	8.279	-121.367	10.383	762.556	1057.918	0.523	21.355	10.383	7.132
2022-09-18 5:15	7485317	8.246	-119.598	10.387	767.794	1065.049	0.527	19.956	10.387	6.799
2022-09-18 5:30	7486217	8.232	-118.816	10.349	779.069	1081.787	0.536	20.386	10.349	7.352
2022-09-18 5:45	7487117	8.200	-117.011	10.252	811.291	1129.437	0.560	22.701	10.252	7.521
2022-09-18 6:00	7488017	8.310	-122.972	10.228	799.803	1114.166	0.552	34.359	10.228	7.472
2022-09-18 6:15	7488917	8.269	-120.745	10.251	791.576	1102.008	0.546	26.953	10.251	7.458
2022-09-18 6:30	7489817	8.265	-120.585	10.269	782.289	1088.586	0.539	23.399	10.269	7.350
2022-09-18 6:45	7490717	8.247	-119.555	10.271	775.761	1079.439	0.534	23.721	10.271	7.401
2022-09-18 7:00	7491617	8.271	-120.900	10.266	755.904	1051.930	0.520	28.069	10.266	7.407
2022-09-18 7:15	7492517	8.253	-119.886	10.244	754.484	1050.569	0.520	19.035	10.244	7.078
2022-09-18 7:30	7493417	8.245	-119.464	10.230	755.889	1052.920	0.521	17.528	10.230	6.749
2022-09-18 7:45	7494317	8.251	-119.753	10.184	754.816	1052.714	0.521	18.435	10.184	7.207
2022-09-18 8:00	7495217	8.313	-123.103	10.112	744.718	1040.642	0.514	268.219	10.112	7.450
2022-09-18 8:15	7496117	8.264	-120.447	10.119	746.074	1042.331	0.515	246.175	10.119	7.146
2022-09-18 8:30	7497017	8.268	-120.656	10.089	745.227	1041.997	0.515	18.812	10.089	7.149
2022-09-18 8:45	7497917	8.272	-120.847	10.030	740.544	1037.073	0.512	17.270	10.030	7.459
2022-09-18 9:00	7498817	8.300	-122.359	9.998	731.331	1025.035	0.506	20.649	9.998	7.471
2022-09-18 9:15	7499717	8.254	-119.829	9.992	736.543	1032.513	0.510	17.666	9.992	7.406
2022-09-18 9:30	7500617	8.267	-120.533	9.959	736.674	1033.618	0.511	17.799	9.959	7.720
2022-09-18 9:45	7501517	8.265	-120.437	9.950	737.790	1035.421	0.511	16.793	9.950	7.683
2022-09-18 10:00	7502417	8.300	-122.294	9.919	747.151	1049.443	0.519	21.699	9.919	7.808
2022-09-18 10:15	7503317	8.257	-119.991	9.913	752.671	1057.351	0.523	18.796	9.913	7.780
2022-09-18 10:30	7504217	8.226	-118.260	9.897	757.746	1064.946	0.527	16.085	9.897	7.739
2022-09-18 10:45	7505117	8.228	-118.370	9.916	771.548	1083.802	0.536	17.930	9.916	7.775
2022-09-18 11:00	7506017	8.312	-123.010	9.946	764.918	1073.627	0.531	21.282	9.946	7.752
2022-09-18 11:15	7506917	8.283	-121.429	9.953	767.791	1077.445	0.533	17.882	9.953	7.891
2022-09-18 11:30	7507817	8.234	-118.730	10.003	782.062	1095.991	0.543	17.042	10.003	7.997
2022-09-18 11:45	7508717	8.276	-121.067	10.049	786.083	1100.285	0.545	19.238	10.049	8.118
2022-09-18 12:00	7509617	8.320	-123.506	10.098	800.181	1118.560	0.554	25.906	10.098	8.168
2022-09-18 12:15	7510517	8.267	-120.604	10.116	835.191	1166.930	0.579	24.533	10.116	8.053
2022-09-18 12:30	7511417	8.288	-121.763	10.142	826.723	1154.291	0.573	23.666	10.142	8.225
2022-09-18 12:45	7512317	8.277	-121.169	10.172	833.018	1162.169	0.577	19.834	10.172	8.124
2022-09-18 13:00	7513217	8.324	-123.751	10.208	826.373	1151.781	0.572	27.389	10.208	8.389
2022-09-18 13:15	7514117	8.291	-121.973	10.219	842.863	1174.429	0.583	24.799	10.219	8.283
2022-09-18 13:30	7515017	8.264	-120.490	10.242	848.214	1181.166	0.587	22.563	10.242	8.434
2022-09-18 13:45	7515917	8.288	-121.827	10.279	848.625	1180.551	0.587	19.027	10.279	8.281
2022-09-18 14:00	7516817	8.371	-126.402	10.352	848.935	1178.698	0.586	33.001	10.352	8.297
2022-09-18 14:15	7517717	8.333	-124.350	10.402	868.789	1204.665	0.599	29.576	10.402	8.206
2022-09-18 14:30	7518617	8.354	-125.501	10.446	885.693	1226.698	0.611	29.700	10.446	8.344
2022-09-18 14:45	7519517	8.352	-125.375	10.450	890.169	1232.746	0.614	27.463	10.450	8.408
2022-09-18 15:00	7520417	8.386	-127.254	10.482	892.643	1235.150	0.615	30.047	10.482	8.199
2022-09-18 15:15	7521317	8.349	-125.248	10.513	892.521	1233.971	0.615	24.124	10.513	8.471
2022-09-18 15:30	7522217	8.352	-125.442	10.592	888.798	1226.261	0.611	22.235	10.592	8.833
2022-09-18 15:45	7523117	8.363	-126.123	10.710	880.856	1211.542	0.603	23.078	10.710	8.747

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-18 16:00	7524017	8.411	-128.756	10.819	861.864	1182.023	0.588	26.348	10.819	9.038
2022-09-18 16:15	7524917	8.357	-125.842	10.858	877.984	1202.910	0.599	26.092	10.858	9.072
2022-09-18 16:30	7525817	8.321	-123.885	10.840	882.122	1209.128	0.602	28.451	10.840	8.899
2022-09-18 16:45	7526717	8.313	-123.446	10.844	883.405	1210.784	0.603	26.184	10.844	9.342
2022-09-18 17:00	7527617	8.388	-127.532	10.880	876.913	1200.754	0.598	26.191	10.880	9.479
2022-09-18 17:15	7528517	8.370	-126.576	10.919	877.234	1199.953	0.598	22.494	10.919	9.442
2022-09-18 17:30	7529417	8.363	-126.214	10.971	871.003	1189.823	0.592	20.723	10.971	9.458
2022-09-18 17:45	7530317	8.373	-126.767	11.014	860.918	1174.736	0.585	18.168	11.014	9.553
2022-09-18 18:00	7531217	8.410	-128.810	11.056	836.252	1139.807	0.567	19.823	11.056	9.347
2022-09-18 18:15	7532117	8.357	-125.957	11.069	828.956	1129.489	0.561	13.911	11.069	9.157
2022-09-18 18:30	7533017	8.356	-125.892	11.085	828.462	1128.357	0.561	13.236	11.085	9.040
2022-09-18 18:45	7533917	8.348	-125.430	11.093	825.669	1124.307	0.559	11.953	11.093	9.007
2022-09-18 19:00	7534817	8.373	-126.815	11.093	815.920	1111.032	0.552	17.031	11.093	9.246
2022-09-18 19:15	7535717	8.354	-125.809	11.088	817.084	1112.777	0.553	13.318	11.088	9.112
2022-09-18 19:30	7536617	8.343	-125.165	11.102	814.821	1109.294	0.551	13.025	11.102	9.090
2022-09-18 19:45	7537517	8.330	-124.500	11.128	809.341	1101.069	0.547	11.196	11.128	9.135
2022-09-18 20:00	7538417	8.377	-127.115	11.196	796.625	1081.855	0.537	14.006	11.196	8.857
2022-09-18 20:15	7539317	8.325	-124.269	11.225	797.253	1081.918	0.537	13.125	11.225	8.769
2022-09-18 20:30	7540217	8.324	-124.209	11.273	789.372	1069.869	0.531	12.863	11.273	8.796
2022-09-18 20:45	7541117	8.323	-124.204	11.315	777.822	1053.077	0.522	13.949	11.315	8.787
2022-09-18 21:00	7542017	8.337	-124.934	11.314	763.999	1034.402	0.512	14.729	11.314	8.398
2022-09-18 21:15	7542917	8.309	-123.398	11.289	765.813	1037.506	0.514	13.917	11.289	8.353
2022-09-18 21:30	7543817	8.301	-122.938	11.242	771.018	1045.830	0.518	12.706	11.242	8.077
2022-09-18 21:45	7544717	8.300	-122.867	11.170	769.673	1045.963	0.518	14.685	11.170	7.817
2022-09-18 22:00	7545617	8.348	-125.442	11.090	749.067	1020.090	0.505	24.091	11.090	7.922
2022-09-18 22:15	7546517	8.294	-122.466	11.078	749.084	1020.427	0.505	16.817	11.078	7.630
2022-09-18 22:30	7547417	8.284	-121.953	11.070	750.211	1022.164	0.506	15.845	11.070	7.425
2022-09-18 22:45	7548317	8.253	-120.213	11.065	752.797	1025.818	0.508	15.379	11.065	7.245
2022-09-18 23:00	7549217	8.265	-120.866	11.056	750.407	1022.822	0.506	15.234	11.056	6.967
2022-09-18 23:15	7550117	8.222	-118.511	11.035	751.450	1024.805	0.507	15.139	11.035	6.725
2022-09-18 23:30	7551017	8.212	-117.967	11.037	751.833	1025.276	0.507	14.077	11.037	6.632
2022-09-18 23:45	7551917	8.201	-117.376	11.038	752.362	1025.951	0.508	13.042	11.038	6.539
2022-09-19 0:00	7552817	8.235	-119.245	11.044	750.738	1023.572	0.507	12.492	11.044	***6.289***
2022-09-19 0:15	7553717	8.197	-117.164	11.026	750.986	1024.409	0.507	13.776	11.026	***6.058***
2022-09-19 0:30	7554617	8.193	-116.949	11.023	751.838	1025.641	0.508	14.702	11.023	***6.199***
2022-09-19 0:45	7555517	8.182	-116.332	11.019	753.504	1028.036	0.509	14.244	11.019	***6.022***
2022-09-19 1:00	7556417	8.215	-118.120	11.014	751.171	1024.984	0.507	12.825	11.014	***5.759***
2022-09-19 1:15	7557317	8.172	-115.759	10.992	751.928	1026.590	0.508	15.242	10.992	***5.660***
2022-09-19 1:30	7558217	8.157	-114.970	10.973	752.751	1028.231	0.509	14.237	10.973	***5.492***
2022-09-19 1:45	7559117	8.158	-114.970	10.953	752.487	1028.418	0.509	14.747	10.953	***5.392***
2022-09-19 2:00	7560017	8.211	-117.865	10.911	746.988	1022.000	0.506	16.681	10.911	***5.407***
2022-09-19 2:15	7560917	8.162	-115.194	10.882	749.112	1025.695	0.507	16.177	10.882	***5.674***
2022-09-19 2:30	7561817	8.170	-115.592	10.839	748.096	1025.453	0.507	13.255	10.839	***5.588***
2022-09-19 2:45	7562717	8.176	-115.893	10.777	749.460	1028.990	0.509	14.773	10.777	***6.049***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-19 3:00	7563617	8.172	-115.690	10.754	742.723	1020.357	0.505	16.722	10.754	***6.142***
2022-09-19 3:15	7564517	8.162	-115.123	10.699	745.200	1025.256	0.507	15.011	10.699	***5.804***
2022-09-19 3:30	7565417	8.172	-115.643	10.613	746.868	1029.872	0.509	17.228	10.613	***6.133***
2022-09-19 3:45	7566317	8.160	-114.925	10.550	749.100	1034.668	0.512	17.164	10.550	***6.111***
2022-09-19 4:00	7567217	8.213	-117.812	10.488	740.774	1024.844	0.507	24.734	10.488	***6.485***
2022-09-19 4:15	7568117	8.164	-115.116	10.438	746.550	1034.185	0.511	20.576	10.438	***6.281***
2022-09-19 4:30	7569017	8.135	-113.516	10.379	746.648	1035.947	0.512	21.005	10.379	***6.412***
2022-09-19 4:45	7569917	8.143	-113.945	10.349	750.530	1042.157	0.515	20.438	10.349	***6.337***
2022-09-19 5:00	7570817	8.203	-117.199	10.320	749.433	1041.447	0.515	22.889	10.320	***6.237***
2022-09-19 5:15	7571717	8.197	-116.878	10.301	747.099	1038.722	0.514	20.106	10.301	6.522
2022-09-19 5:30	7572617	8.181	-115.993	10.314	750.022	1042.439	0.515	19.614	10.314	***6.303***
2022-09-19 5:45	7573517	8.162	-114.927	10.300	751.181	1044.430	0.516	19.190	10.300	***5.950***
2022-09-19 6:00	7574417	8.214	-117.791	10.283	749.864	1043.070	0.516	24.322	10.283	***5.605***
2022-09-19 6:15	7575317	8.182	-116.024	10.213	749.001	1043.805	0.516	20.345	10.213	***5.877***
2022-09-19 6:30	7576217	8.198	-116.839	10.113	748.133	1045.378	0.517	21.226	10.113	***6.357***
2022-09-19 6:45	7577117	8.208	-117.371	10.044	746.654	1045.238	0.517	20.828	10.044	7.018
2022-09-19 7:00	7578017	8.262	-120.313	10.030	744.678	1042.872	0.515	21.365	10.030	7.071
2022-09-19 7:15	7578917	8.242	-119.183	10.037	744.574	1042.529	0.515	17.040	10.037	7.277
2022-09-19 7:30	7579817	8.212	-117.586	10.040	748.049	1047.308	0.518	17.161	10.040	7.159
2022-09-19 7:45	7580717	8.174	-115.497	10.049	751.148	1051.396	0.520	15.872	10.049	6.801
2022-09-19 8:00	7581617	8.238	-119.026	10.104	753.936	1053.733	0.521	21.051	10.104	6.539
2022-09-19 8:15	7582517	8.203	-117.123	10.109	755.638	1055.963	0.522	35.476	10.109	***6.457***
2022-09-19 8:30	7583417	8.204	-117.188	10.134	760.047	1061.439	0.525	36.762	10.134	6.558
2022-09-19 8:45	7584317	8.162	-114.899	10.156	762.313	1063.976	0.526	22.520	10.156	6.690
2022-09-19 9:00	7585217	8.214	-117.750	10.211	763.230	1063.704	0.526	16.971	10.211	6.817
2022-09-19 9:15	7586117	8.205	-117.211	10.153	768.634	1072.878	0.531	16.259	10.153	6.723
2022-09-19 9:30	7587017	8.187	-116.262	10.159	771.517	1076.745	0.533	15.216	10.159	6.629
2022-09-19 9:45	7587917	8.180	-115.895	10.166	771.759	1076.876	0.533	13.832	10.166	6.763
2022-09-19 10:00	7588817	8.283	-121.469	10.112	762.059	1064.852	0.527	23.537	10.112	7.307
2022-09-19 10:15	7589717	8.205	-117.161	10.034	760.410	1064.788	0.527	21.541	10.034	7.270
2022-09-19 10:30	7590617	8.167	-115.092	10.002	774.813	1085.882	0.537	22.204	10.002	7.395
2022-09-19 10:45	7591517	8.247	-119.517	10.079	787.546	1101.456	0.546	19.452	10.079	7.485
2022-09-19 11:00	7592417	8.307	-122.766	10.113	788.192	1101.350	0.546	20.679	10.113	7.641
2022-09-19 11:15	7593317	8.273	-120.912	10.123	787.457	1100.022	0.545	19.204	10.123	8.124
2022-09-19 11:30	7594217	8.233	-118.735	10.113	786.759	1099.361	0.545	17.230	10.113	8.176
2022-09-19 11:45	7595117	8.212	-117.557	10.070	785.026	1098.179	0.544	16.536	10.070	8.699
2022-09-19 12:00	7596017	8.307	-122.793	10.102	785.723	1098.216	0.544	19.405	10.102	8.488
2022-09-19 12:15	7596917	8.271	-120.854	10.135	787.321	1099.496	0.545	16.358	10.135	8.435
2022-09-19 12:30	7597817	8.244	-119.381	10.215	790.984	1102.268	0.546	17.674	10.215	8.244
2022-09-19 12:45	7598717	8.292	-122.023	10.275	791.789	1101.607	0.546	17.306	10.275	8.453
2022-09-19 13:00	7599617	8.325	-123.899	10.377	793.728	1101.326	0.546	18.229	10.377	8.534
2022-09-19 13:15	7600517	8.288	-121.851	10.407	793.482	1100.118	0.545	16.165	10.407	8.195
2022-09-19 13:30	7601417	8.244	-119.507	10.434	798.161	1105.808	0.548	13.300	10.434	8.518
2022-09-19 13:45	7602317	8.303	-122.707	10.385	793.872	1101.305	0.546	14.844	10.385	8.760

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-19 14:00	7603217	8.351	-125.375	10.494	792.130	1095.726	0.543	17.409	10.494	8.746
2022-09-19 14:15	7604117	8.289	-121.975	10.565	792.432	1094.067	0.542	14.345	10.565	8.937
2022-09-19 14:30	7605017	8.283	-121.717	10.685	794.400	1093.328	0.542	14.743	10.685	9.158
2022-09-19 14:45	7605918	8.274	-121.262	10.794	795.963	1092.344	0.542	14.809	10.794	9.088
2022-09-19 15:00	7606818	8.308	-123.186	10.944	792.162	1082.881	0.537	16.403	10.944	9.338
2022-09-19 15:15	7607718	8.283	-121.844	11.030	793.592	1082.412	0.537	16.463	11.030	9.234
2022-09-19 15:30	7608618	8.275	-121.474	11.155	794.614	1080.272	0.536	13.610	11.155	9.497
2022-09-19 15:45	7609518	8.283	-121.977	11.268	796.398	1079.544	0.536	14.013	11.268	9.773
2022-09-19 16:00	7610418	8.325	-124.230	11.165	819.658	1114.041	0.553	12.656	11.165	8.543
2022-09-19 16:15	7611318	8.311	-123.382	11.026	836.375	1140.879	0.567	11.516	11.026	9.736
2022-09-19 16:30	7612218	8.294	-122.480	11.097	832.618	1133.668	0.563	11.201	11.097	9.536
2022-09-19 16:45	7613118	8.306	-123.222	11.189	820.330	1114.268	0.553	14.727	11.189	9.705
2022-09-19 17:00	7614018	8.353	-125.866	11.450	799.622	1078.839	0.535	14.113	11.450	9.579
2022-09-19 17:15	7614918	8.345	-125.477	11.573	797.791	1072.945	0.533	13.677	11.573	9.920
2022-09-19 17:30	7615818	8.344	-125.504	11.680	790.658	1060.460	0.526	12.656	11.680	10.299
2022-09-19 17:45	7616718	8.340	-125.282	11.701	814.456	1091.783	0.542	12.872	11.701	10.137
2022-09-19 18:00	7617618	8.389	-127.854	11.414	786.069	1061.538	0.526	12.090	11.414	9.874
2022-09-19 18:15	7618518	8.320	-124.011	11.331	787.491	1065.719	0.529	11.436	11.331	9.280
2022-09-19 18:30	7619418	8.321	-123.978	11.143	801.751	1090.331	0.541	11.663	11.143	8.743
2022-09-19 18:45	7620318	8.295	-122.595	11.134	801.083	1089.683	0.541	10.162	11.134	9.279
2022-09-19 19:00	7621218	8.336	-124.869	11.271	788.003	1068.069	0.530	10.288	11.271	9.540
2022-09-19 19:15	7622118	8.328	-124.462	11.352	785.640	1062.656	0.527	10.958	11.352	9.881
2022-09-19 19:30	7623018	8.328	-124.521	11.444	780.221	1052.823	0.522	10.415	11.444	9.935
2022-09-19 19:45	7623918	8.318	-123.999	11.505	778.972	1049.492	0.520	10.987	11.505	9.855
2022-09-19 20:00	7624818	8.347	-125.592	11.532	761.938	1025.810	0.508	11.448	11.532	9.475
2022-09-19 20:15	7625718	8.249	-120.206	11.515	784.270	1056.350	0.524	10.245	11.515	8.910
2022-09-19 20:30	7626618	8.221	-118.661	11.431	796.067	1074.544	0.533	10.742	11.431	9.130
2022-09-19 20:45	7627518	8.264	-120.957	11.366	794.386	1074.086	0.533	10.103	11.366	9.058
2022-09-19 21:00	7628418	8.307	-123.320	11.362	778.059	1052.110	0.522	10.388	11.362	8.748
2022-09-19 21:15	7629318	8.276	-121.632	11.373	775.762	1048.729	0.520	10.382	11.373	9.086
2022-09-19 21:30	7630218	8.264	-120.988	11.367	774.165	1046.732	0.519	10.596	11.367	8.782
2022-09-19 21:45	7631118	8.255	-120.473	11.388	771.619	1042.712	0.517	10.281	11.388	8.622
2022-09-19 22:00	7632018	8.282	-121.946	11.383	757.263	1023.436	0.507	10.867	11.383	8.388
2022-09-19 22:15	7632918	8.221	-118.620	11.322	761.486	1030.785	0.511	9.363	11.322	8.151
2022-09-19 22:30	7633818	8.191	-116.918	11.267	764.539	1036.381	0.513	9.634	11.267	7.819
2022-09-19 22:45	7634718	8.220	-118.487	11.244	762.333	1034.017	0.512	9.451	11.244	7.566
2022-09-19 23:00	7635618	8.234	-119.214	11.165	753.499	1024.125	0.507	8.515	11.165	7.655
2022-09-19 23:15	7636518	8.220	-118.463	11.096	752.648	1024.792	0.507	9.221	11.096	7.719
2022-09-19 23:30	7637418	8.206	-117.640	10.971	749.720	1024.132	0.507	9.708	10.971	7.595
2022-09-19 23:45	7638318	8.198	-117.183	10.906	747.466	1022.811	0.506	9.675	10.906	7.427
2022-09-20 0:00	7639218	8.226	-118.716	10.907	743.049	1016.721	0.503	11.819	10.907	7.405
2022-09-20 0:15	7640118	8.201	-117.311	10.858	739.966	1013.800	0.501	9.722	10.858	7.387
2022-09-20 0:30	7641018	8.184	-116.327	10.795	734.198	1007.555	0.498	9.128	10.795	7.182
2022-09-20 0:45	7641918	8.169	-115.507	10.740	741.377	1018.885	0.504	9.017	10.740	6.960

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-20 1:00	7642818	8.172	-115.669	10.696	737.148	1014.257	0.501	7.570	10.696	***6.496***
2022-09-20 1:15	7643718	8.146	-114.164	10.576	732.748	1011.378	0.500	13.625	10.576	***6.313***
2022-09-20 1:30	7644618	8.146	-114.195	10.557	731.982	1010.822	0.499	11.048	10.557	6.645
2022-09-20 1:45	7645518	8.128	-113.146	10.452	729.449	1010.144	0.499	10.308	10.452	6.545
2022-09-20 2:00	7646418	8.177	-115.771	10.336	713.903	991.635	0.489	12.535	10.336	6.712
2022-09-20 2:15	7647318	8.162	-114.918	10.187	709.638	989.620	0.488	9.225	10.187	6.601
2022-09-20 2:30	7648218	8.156	-114.558	10.156	710.897	992.218	0.490	8.777	10.156	6.521
2022-09-20 2:45	7649118	8.132	-113.220	10.060	709.184	992.358	0.489	8.771	10.060	***6.492***
2022-09-20 3:00	7650018	8.174	-115.461	9.999	702.741	984.934	0.486	9.421	9.999	***6.207***
2022-09-20 3:15	7650918	8.154	-114.300	9.789	698.586	984.653	0.485	9.375	9.789	***6.168***
2022-09-20 3:30	7651818	8.182	-115.817	9.750	692.753	977.472	0.482	8.906	9.750	6.593
2022-09-20 3:45	7652718	8.171	-115.194	9.723	694.256	980.304	0.483	8.549	9.723	***6.489***
2022-09-20 4:00	7653618	8.197	-116.656	9.748	694.470	979.951	0.483	11.032	9.748	***6.406***
2022-09-20 4:15	7654518	8.159	-114.543	9.688	693.507	980.159	0.483	8.177	9.688	***6.203***
2022-09-20 4:30	7655418	8.150	-114.069	9.687	694.921	982.180	0.484	8.041	9.687	***6.055***
2022-09-20 4:45	7656318	8.142	-113.590	9.673	698.507	987.621	0.487	9.309	9.673	***5.963***
2022-09-20 5:00	7657218	8.169	-115.077	9.635	699.617	990.229	0.488	8.017	9.635	***5.968***
2022-09-20 5:15	7658118	8.165	-114.796	9.552	706.257	1001.877	0.494	9.557	9.552	***6.076***
2022-09-20 5:30	7659018	8.156	-114.274	9.471	710.106	1009.543	0.498	9.677	9.471	***6.389***
2022-09-20 5:45	7659918	8.174	-115.254	9.467	708.972	1008.031	0.497	9.124	9.467	***6.322***
2022-09-20 6:00	7660818	8.210	-117.214	9.491	707.927	1005.891	0.496	9.233	9.491	***6.240***
2022-09-20 6:15	7661718	8.160	-114.472	9.458	708.023	1006.926	0.496	8.791	9.458	***6.207***
2022-09-20 6:30	7662618	8.145	-113.695	9.443	710.469	1010.833	0.498	8.703	9.443	***6.043***
2022-09-20 6:45	7663518	8.136	-113.156	9.424	713.631	1015.847	0.501	8.466	9.424	***5.912***
2022-09-20 7:00	7664418	8.174	-115.266	9.441	714.056	1015.984	0.501	9.921	9.441	***5.714***
2022-09-20 7:15	7665318	8.142	-113.490	9.432	713.020	1014.759	0.500	9.237	9.432	***6.243***
2022-09-20 7:30	7666218	8.136	-113.187	9.452	713.614	1015.041	0.500	8.978	9.452	***6.252***
2022-09-20 7:45	7667118	8.127	-112.679	9.471	714.662	1016.023	0.501	8.556	9.471	***6.374***
2022-09-20 8:00	7668018	8.196	-116.475	9.523	721.265	1023.955	0.505	11.341	9.523	7.000
2022-09-20 8:15	7668918	8.171	-115.135	9.509	723.364	1027.313	0.507	10.297	9.509	6.970
2022-09-20 8:30	7669818	8.145	-113.683	9.482	728.032	1034.703	0.511	9.950	9.482	7.183
2022-09-20 8:45	7670718	8.142	-113.504	9.452	730.829	1039.534	0.513	9.896	9.452	6.851
2022-09-20 9:00	7671618	8.174	-115.283	9.455	732.053	1041.188	0.514	11.161	9.455	6.592
2022-09-20 9:15	7672518	8.148	-113.838	9.441	733.491	1043.622	0.515	10.205	9.441	7.434
2022-09-20 9:30	7673418	8.131	-112.896	9.438	738.126	1050.318	0.518	10.330	9.438	7.766
2022-09-20 9:45	7674318	8.146	-113.704	9.410	739.253	1052.709	0.520	10.539	9.410	7.470
2022-09-20 10:00	7675218	8.228	-118.177	9.378	739.491	1053.975	0.520	14.474	9.378	6.927
2022-09-20 10:15	7676118	8.171	-115.027	9.337	739.567	1055.265	0.521	11.643	9.337	6.865
2022-09-20 10:30	7677018	8.171	-115.061	9.331	741.194	1057.767	0.522	11.350	9.331	7.121
2022-09-20 10:45	7677918	8.168	-114.865	9.345	743.408	1060.505	0.524	11.093	9.345	7.533
2022-09-20 11:00	7678818	8.223	-117.893	9.377	745.789	1062.968	0.525	11.292	9.377	7.362
2022-09-20 11:15	7679718	8.200	-116.622	9.372	745.370	1062.523	0.525	10.701	9.372	7.404
2022-09-20 11:30	7680618	8.188	-115.983	9.375	747.207	1065.047	0.526	10.125	9.375	7.557
2022-09-20 11:45	7681518	8.165	-114.722	9.380	748.057	1066.119	0.526	14.244	9.380	7.515

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-20 12:00	7682418	8.242	-118.940	9.403	749.276	1067.194	0.527	11.780	9.403	7.193
2022-09-20 12:15	7683318	8.186	-115.869	9.411	748.519	1065.880	0.526	9.628	9.411	6.958
2022-09-20 12:30	7684218	8.179	-115.545	9.432	748.686	1065.507	0.526	8.945	9.432	6.738
2022-09-20 12:45	7685118	8.167	-114.872	9.444	749.333	1066.077	0.527	8.867	9.444	6.677
2022-09-20 13:00	7686018	8.198	-116.558	9.413	748.604	1065.955	0.526	11.664	9.413	6.540
2022-09-20 13:15	7686918	8.159	-114.405	9.339	755.711	1078.249	0.533	12.616	9.339	6.979
2022-09-20 13:30	7687818	8.211	-117.302	9.486	784.531	1114.906	0.552	13.334	9.486	8.239
2022-09-20 13:45	7688718	8.226	-118.136	9.595	791.617	1121.647	0.555	12.809	9.595	8.693
2022-09-20 14:00	7689618	8.309	-122.778	9.838	807.107	1136.106	0.563	16.949	9.838	8.540
2022-09-20 14:15	7690518	8.242	-119.154	9.941	810.690	1138.001	0.564	15.051	9.941	8.880
2022-09-20 14:30	7691418	8.256	-119.982	10.081	813.937	1138.299	0.565	15.586	10.081	8.993
2022-09-20 14:45	7692318	8.242	-119.328	10.296	819.046	1138.905	0.565	15.488	10.296	9.127
2022-09-20 15:00	7693218	8.290	-121.987	10.400	824.127	1142.820	0.567	19.874	10.400	9.135
2022-09-20 15:15	7694118	8.287	-121.815	10.391	824.146	1143.113	0.567	14.788	10.391	9.206
2022-09-20 15:30	7695018	8.289	-121.937	10.449	832.485	1152.893	0.573	14.882	10.449	8.806
2022-09-20 15:45	7695918	8.300	-122.578	10.509	835.743	1155.581	0.574	16.494	10.509	8.991
2022-09-20 16:00	7696818	8.368	-126.345	10.607	838.066	1155.800	0.574	16.244	10.607	9.583
2022-09-20 16:15	7697718	8.324	-123.916	10.639	836.154	1152.197	0.572	15.246	10.639	9.660
2022-09-20 16:30	7698618	8.311	-123.229	10.693	837.073	1151.832	0.572	14.097	10.693	9.549
2022-09-20 16:45	7699518	8.315	-123.491	10.749	836.216	1148.961	0.571	12.310	10.749	9.581
2022-09-20 17:00	7700418	8.331	-124.400	10.836	818.039	1121.434	0.557	16.427	10.836	9.832
2022-09-20 17:15	7701318	8.304	-122.933	10.888	822.961	1126.622	0.560	14.180	10.888	10.328
2022-09-20 17:30	7702218	8.296	-122.550	10.927	823.901	1126.762	0.560	13.050	10.927	9.977
2022-09-20 17:45	7703118	8.296	-122.578	10.963	823.673	1125.395	0.559	11.628	10.963	9.902
2022-09-20 18:00	7704018	8.389	-127.671	10.997	820.751	1120.409	0.556	12.342	10.997	10.732
2022-09-20 18:15	7704918	8.326	-124.204	11.004	815.279	1112.745	0.552	11.741	11.004	10.345
2022-09-20 18:30	7705818	8.314	-123.572	11.016	817.129	1114.925	0.554	11.324	11.016	10.448
2022-09-20 18:45	7706718	8.315	-123.630	11.009	819.549	1118.437	0.555	10.949	11.009	10.155
2022-09-20 19:00	7707618	8.342	-125.065	10.945	804.971	1100.357	0.546	10.921	10.945	9.585
2022-09-20 19:15	7708518	8.298	-122.647	10.901	801.825	1097.335	0.544	10.475	10.901	9.890
2022-09-20 19:30	7709418	8.293	-122.330	10.851	801.205	1097.909	0.545	10.341	10.851	9.655
2022-09-20 19:45	7710318	8.285	-121.891	10.810	798.222	1094.996	0.543	9.173	10.810	9.815
2022-09-20 20:00	7711218	8.279	-121.515	10.770	804.552	1104.846	0.548	11.391	10.770	9.352
2022-09-20 20:15	7712118	8.256	-120.292	10.753	817.135	1122.619	0.557	12.655	10.753	9.850
2022-09-20 20:30	7713018	8.224	-118.330	10.294	806.456	1121.453	0.556	18.516	10.294	9.827
2022-09-20 20:45	7713918	8.288	-121.572	9.679	812.149	1148.122	0.569	24.752	9.679	8.831
2022-09-20 21:00	7714818	8.348	-124.745	9.488	811.943	1153.776	0.572	23.926	9.488	8.802
2022-09-20 21:15	7715718	8.313	-122.824	9.404	828.950	1180.648	0.586	22.386	9.404	8.806
2022-09-20 21:30	7716618	8.339	-124.199	9.419	845.439	1203.634	0.597	19.945	9.419	8.975
2022-09-20 21:45	7717518	8.355	-125.091	9.375	860.051	1225.903	0.609	20.966	9.375	9.104
2022-09-20 22:00	7718418	8.392	-126.960	9.095	869.008	1248.177	0.620	27.485	9.095	9.106
2022-09-20 22:15	7719318	8.341	-124.066	8.771	866.096	1255.168	0.623	26.556	8.771	9.047
2022-09-20 22:30	7720218	8.343	-124.111	8.617	861.177	1253.371	0.622	26.738	8.617	9.111
2022-09-20 22:45	7721119	8.363	-125.189	8.597	858.448	1250.106	0.620	25.579	8.597	9.231

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-20 23:00	7722019	8.428	-128.722	8.658	857.859	1247.111	0.619	30.006	8.658	9.287
2022-09-20 23:15	7722919	8.393	-126.851	8.765	854.084	1237.976	0.614	30.809	8.765	9.262
2022-09-20 23:30	7723819	8.400	-127.320	8.903	848.977	1225.866	0.608	35.610	8.903	9.262
2022-09-20 23:45	7724719	8.396	-127.165	9.037	844.317	1214.664	0.603	40.329	9.037	9.129
2022-09-21 0:00	7725619	8.432	-129.163	9.154	839.445	1203.780	0.597	49.901	9.154	9.060
2022-09-21 0:15	7726519	8.382	-126.505	9.230	834.708	1194.513	0.592	42.455	9.230	9.028
2022-09-21 0:30	7727419	8.371	-125.892	9.274	831.897	1189.058	0.590	44.281	9.274	8.991
2022-09-21 0:45	7728319	8.360	-125.308	9.294	829.363	1184.794	0.587	46.991	9.294	8.944
2022-09-21 1:00	7729219	8.387	-126.796	9.292	829.512	1185.055	0.588	45.629	9.292	8.897
2022-09-21 1:15	7730119	8.329	-123.594	9.280	828.277	1183.673	0.587	43.419	9.280	8.849
2022-09-21 1:30	7731019	8.334	-123.911	9.263	826.019	1181.015	0.585	44.222	9.263	8.810
2022-09-21 1:45	7731919	8.332	-123.773	9.239	826.083	1181.857	0.586	42.186	9.239	8.822
2022-09-21 2:00	7732819	8.372	-125.916	9.217	825.696	1182.020	0.586	45.440	9.217	8.828
2022-09-21 2:15	7733719	8.332	-123.734	9.195	825.350	1182.247	0.586	41.137	9.195	8.836
2022-09-21 2:30	7734619	8.332	-123.723	9.170	824.697	1182.122	0.586	41.227	9.170	8.830
2022-09-21 2:45	7735519	8.333	-123.765	9.145	824.331	1182.385	0.586	41.848	9.145	8.827
2022-09-21 3:00	7736419	8.368	-125.692	9.123	822.810	1180.919	0.585	47.749	9.123	8.824
2022-09-21 3:15	7737319	8.331	-123.632	9.101	822.495	1181.183	0.585	41.564	9.101	8.783
2022-09-21 3:30	7738219	8.328	-123.465	9.065	822.136	1181.854	0.586	41.461	9.065	8.800
2022-09-21 3:45	7739119	8.327	-123.425	9.028	823.332	1184.771	0.587	41.037	9.028	8.767
2022-09-21 4:00	7740019	8.378	-126.162	8.980	823.365	1186.369	0.588	47.467	8.980	8.776
2022-09-21 4:15	7740919	8.349	-124.567	8.932	823.137	1187.599	0.588	40.816	8.932	8.846
2022-09-21 4:30	7741819	8.352	-124.683	8.885	821.812	1187.227	0.588	43.385	8.885	8.852
2022-09-21 4:45	7742719	8.355	-124.862	8.837	819.086	1184.879	0.587	42.579	8.837	8.849
2022-09-21 5:00	7743619	8.394	-126.936	8.789	819.740	1187.407	0.588	41.653	8.789	8.884
2022-09-21 5:15	7744519	8.352	-124.655	8.754	818.699	1187.039	0.588	41.477	8.754	8.829
2022-09-21 5:30	7745419	8.358	-124.936	8.694	817.835	1187.755	0.588	44.218	8.694	8.842
2022-09-21 5:45	7746319	8.362	-125.115	8.639	816.832	1188.100	0.588	41.798	8.639	8.857
2022-09-21 6:00	7747219	8.404	-127.389	8.581	815.742	1188.448	0.588	49.477	8.581	8.847
2022-09-21 6:15	7748119	8.374	-125.709	8.514	814.801	1189.275	0.589	43.646	8.514	8.840
2022-09-21 6:30	7749019	8.377	-125.885	8.456	813.846	1189.825	0.589	44.117	8.456	8.879
2022-09-21 6:45	7749919	8.380	-125.990	8.398	812.164	1189.283	0.588	44.671	8.398	8.917
2022-09-21 7:00	7750819	8.422	-128.248	8.334	810.269	1188.651	0.588	45.786	8.334	8.926
2022-09-21 7:15	7751719	8.385	-126.219	8.278	810.050	1190.194	0.589	44.597	8.278	8.908
2022-09-21 7:30	7752619	8.388	-126.367	8.221	808.729	1190.156	0.589	44.116	8.221	8.928
2022-09-21 7:45	7753519	8.390	-126.462	8.166	808.206	1191.211	0.589	43.146	8.166	8.967
2022-09-21 8:00	7754419	8.435	-128.834	8.105	805.622	1189.455	0.588	64.741	8.105	8.961
2022-09-21 8:15	7755319	8.395	-126.660	8.052	803.142	1187.558	0.587	58.875	8.052	8.966
2022-09-21 8:30	7756219	8.400	-126.896	7.994	802.791	1188.996	0.588	55.299	7.994	8.979
2022-09-21 8:45	7757119	8.404	-127.084	7.951	802.331	1189.758	0.588	55.918	7.951	9.003
2022-09-21 9:00	7758019	8.445	-129.304	7.907	801.572	1190.117	0.588	63.156	7.907	9.032
2022-09-21 9:15	7758919	8.408	-127.287	7.868	803.020	1193.595	0.590	53.038	7.868	9.001
2022-09-21 9:30	7759819	8.409	-127.316	7.840	801.090	1191.665	0.589	52.783	7.840	9.042
2022-09-21 9:45	7760719	8.414	-127.571	7.815	801.706	1193.424	0.590	51.935	7.815	9.057

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-21 10:00	7761619	8.465	-130.346	7.799	801.464	1193.620	0.590	57.163	7.799	9.072
2022-09-21 10:15	7762519	8.425	-128.169	7.786	799.385	1190.959	0.588	51.187	7.786	9.097
2022-09-21 10:30	7763419	8.430	-128.436	7.774	800.491	1193.007	0.589	49.619	7.774	9.153
2022-09-21 10:45	7764319	8.434	-128.665	7.759	801.686	1195.291	0.590	49.233	7.759	9.195
2022-09-21 11:00	7765219	8.472	-130.701	7.758	801.633	1195.271	0.590	52.166	7.758	9.205
2022-09-21 11:15	7766119	8.433	-128.582	7.761	802.916	1197.052	0.591	51.703	7.761	9.188
2022-09-21 11:30	7767019	8.437	-128.789	7.776	802.821	1196.403	0.591	51.883	7.776	9.241
2022-09-21 11:45	7767919	8.442	-129.094	7.791	804.259	1198.038	0.592	51.363	7.791	9.284
2022-09-21 12:00	7768819	8.486	-131.478	7.801	804.215	1197.646	0.592	59.267	7.801	9.353
2022-09-21 12:15	7769719	8.451	-129.592	7.806	804.816	1198.356	0.592	53.388	7.806	9.410
2022-09-21 12:30	7770619	8.455	-129.790	7.831	806.371	1199.843	0.593	53.929	7.831	9.456
2022-09-21 12:45	7771519	8.457	-129.943	7.868	805.517	1197.283	0.592	52.310	7.868	9.472
2022-09-21 13:00	7772419	8.497	-132.158	7.943	807.598	1197.845	0.592	53.873	7.943	9.494
2022-09-21 13:15	7773319	8.461	-130.198	8.012	808.682	1197.093	0.592	54.485	8.012	9.452
2022-09-21 13:30	7774219	8.468	-130.641	8.113	811.191	1197.414	0.592	165.319	8.113	9.482
2022-09-21 13:45	7775119	8.473	-131.030	8.323	815.585	1196.808	0.592	52.977	8.323	9.543
2022-09-21 14:00	7776019	8.515	-133.371	8.529	820.337	1196.869	0.593	60.328	8.529	9.617
2022-09-21 14:15	7776919	8.482	-131.717	8.762	825.818	1197.089	0.593	53.716	8.762	9.770
2022-09-21 14:30	7777819	8.490	-132.239	8.980	830.853	1197.173	0.593	55.848	8.980	9.824
2022-09-21 14:45	7778719	8.500	-132.866	9.149	835.943	1198.927	0.595	56.431	9.149	9.904
2022-09-21 15:00	7779619	8.543	-135.269	9.330	838.937	1197.287	0.594	54.141	9.330	9.981
2022-09-21 15:15	7780519	8.502	-133.121	9.457	841.503	1196.804	0.594	55.545	9.457	9.971
2022-09-21 15:30	7781419	8.498	-132.959	9.573	846.887	1200.670	0.596	54.433	9.573	10.008
2022-09-21 15:45	7782319	8.510	-133.677	9.706	849.056	1199.443	0.596	54.439	9.706	10.000
2022-09-21 16:00	7783219	8.550	-135.901	9.853	854.784	1202.752	0.598	59.156	9.853	10.030
2022-09-21 16:15	7784119	8.527	-134.742	9.985	859.245	1204.743	0.599	57.916	9.985	10.153
2022-09-21 16:30	7785019	8.530	-134.926	10.075	863.265	1207.474	0.600	57.114	10.075	10.191
2022-09-21 16:45	7785919	8.537	-135.362	10.157	865.625	1208.136	0.601	57.784	10.157	10.226
2022-09-21 17:00	7786819	8.575	-137.482	10.227	869.580	1211.398	0.603	53.823	10.227	10.214
2022-09-21 17:15	7787719	8.523	-134.640	10.250	870.247	1211.589	0.603	58.434	10.250	10.206
2022-09-21 17:30	7788619	8.517	-134.313	10.307	872.851	1213.352	0.604	59.380	10.307	10.168
2022-09-21 17:45	7789519	8.520	-134.518	10.341	875.970	1216.599	0.605	55.987	10.341	10.174
2022-09-21 18:00	7790419	8.555	-136.437	10.375	878.863	1219.525	0.607	62.231	10.375	10.166
2022-09-21 18:15	7791319	8.551	-136.230	10.394	879.901	1220.345	0.607	54.902	10.394	10.133
2022-09-21 18:30	7792219	8.551	-136.216	10.394	882.267	1223.626	0.609	55.027	10.394	10.130
2022-09-21 18:45	7793119	8.545	-135.903	10.386	882.512	1224.214	0.609	53.904	10.386	10.110
2022-09-21 19:00	7794019	8.573	-137.432	10.379	881.860	1223.536	0.609	45.835	10.379	10.089
2022-09-21 19:15	7794919	8.521	-134.568	10.359	881.623	1223.858	0.609	44.216	10.359	9.992
2022-09-21 19:30	7795819	8.510	-133.960	10.322	880.718	1223.811	0.609	42.826	10.322	9.966
2022-09-21 19:45	7796719	8.487	-132.670	10.292	879.365	1222.901	0.609	39.217	10.292	9.878
2022-09-21 20:00	7797619	8.515	-134.220	10.239	878.128	1222.916	0.609	47.485	10.239	9.846
2022-09-21 20:15	7798519	8.486	-132.575	10.175	875.768	1221.701	0.608	33.678	10.175	9.774
2022-09-21 20:30	7799419	8.473	-131.860	10.120	873.947	1220.962	0.607	29.743	10.120	9.707
2022-09-21 20:45	7800319	8.461	-131.164	10.057	873.146	1221.876	0.608	28.377	10.057	9.672

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-21 21:00	7801219	8.479	-132.117	10.008	870.819	1220.239	0.607	29.916	10.008	9.618
2022-09-21 21:15	7802119	8.437	-129.797	9.957	869.781	1220.423	0.607	26.688	9.957	9.514
2022-09-21 21:30	7803019	8.426	-129.187	9.909	868.142	1219.721	0.606	26.400	9.909	9.497
2022-09-21 21:45	7803919	8.418	-128.720	9.857	866.203	1218.697	0.606	24.786	9.857	9.439
2022-09-21 22:00	7804819	8.448	-130.327	9.787	866.839	1221.871	0.607	36.220	9.787	9.411
2022-09-21 22:15	7805719	8.403	-127.876	9.745	864.529	1219.989	0.606	23.676	9.745	9.383
2022-09-21 22:30	7806619	8.397	-127.511	9.687	863.773	1220.849	0.607	23.013	9.687	9.344
2022-09-21 22:45	7807519	8.391	-127.168	9.631	863.275	1221.991	0.607	22.613	9.631	9.326
2022-09-21 23:00	7808419	8.422	-128.827	9.580	862.718	1222.870	0.608	25.732	9.580	9.276
2022-09-21 23:15	7809319	8.378	-126.426	9.550	861.636	1222.350	0.607	20.414	9.550	9.205
2022-09-21 23:30	7810219	8.369	-125.914	9.506	859.515	1220.787	0.606	19.841	9.506	9.172
2022-09-21 23:45	7811119	8.365	-125.651	9.459	858.181	1220.437	0.606	19.324	9.459	9.176
2022-09-22 0:00	7812019	8.406	-127.861	9.404	858.314	1222.455	0.607	23.339	9.404	9.134
2022-09-22 0:15	7812919	8.369	-125.823	9.360	856.409	1221.213	0.606	22.146	9.360	9.143
2022-09-22 0:30	7813819	8.368	-125.744	9.315	855.608	1221.562	0.607	18.204	9.315	9.127
2022-09-22 0:45	7814720	8.366	-125.628	9.272	853.562	1220.093	0.606	18.032	9.272	9.081
2022-09-22 1:00	7815620	8.398	-127.366	9.234	853.179	1220.799	0.606	18.220	9.234	9.061
2022-09-22 1:15	7816520	8.350	-124.736	9.200	850.695	1218.360	0.605	17.676	9.200	8.998
2022-09-22 1:30	7817420	8.346	-124.481	9.158	850.140	1218.985	0.605	17.165	9.158	9.037
2022-09-22 1:45	7818320	8.333	-123.754	9.116	848.838	1218.510	0.605	17.381	9.116	8.918
2022-09-22 2:00	7819220	8.380	-126.319	9.067	846.770	1217.186	0.604	37.644	9.067	8.742
2022-09-22 2:15	7820120	8.336	-123.863	9.024	845.238	1216.416	0.603	16.632	9.024	8.932
2022-09-22 2:30	7821020	8.350	-124.614	8.979	843.185	1214.963	0.603	17.033	8.979	8.917
2022-09-22 2:45	7821920	8.351	-124.655	8.930	843.158	1216.571	0.603	16.421	8.930	8.920
2022-09-22 3:00	7822820	8.391	-126.824	8.883	841.109	1215.194	0.603	16.778	8.883	8.937
2022-09-22 3:15	7823720	8.341	-124.102	8.832	839.736	1214.905	0.602	15.696	8.832	8.880
2022-09-22 3:30	7824620	8.345	-124.264	8.802	839.934	1216.197	0.603	16.552	8.802	8.838
2022-09-22 3:45	7825520	8.341	-124.049	8.754	839.016	1216.504	0.603	16.707	8.754	8.856
2022-09-22 4:00	7826420	8.386	-126.467	8.704	836.433	1214.432	0.602	22.359	8.704	8.816
2022-09-22 4:15	7827320	8.336	-123.723	8.673	833.543	1211.273	0.600	16.747	8.673	8.808
2022-09-22 4:30	7828220	8.316	-122.633	8.626	833.217	1212.384	0.601	17.570	8.626	8.666
2022-09-22 4:45	7829120	8.350	-124.450	8.563	830.860	1211.068	0.600	33.006	8.563	8.831
2022-09-22 5:00	7830020	8.374	-125.732	8.515	830.621	1212.334	0.600	17.339	8.515	8.804
2022-09-22 5:15	7830920	8.330	-123.334	8.488	830.044	1212.425	0.600	17.401	8.488	8.700
2022-09-22 5:30	7831820	8.307	-122.080	8.430	832.065	1217.338	0.603	16.264	8.430	8.532
2022-09-22 5:45	7832720	8.307	-122.039	8.394	830.574	1216.371	0.602	14.808	8.394	8.390
2022-09-22 6:00	7833620	8.368	-125.351	8.347	829.018	1215.714	0.602	20.466	8.347	8.286
2022-09-22 6:15	7834520	8.314	-122.387	8.287	827.351	1215.311	0.602	16.181	8.287	8.487
2022-09-22 6:30	7835420	8.306	-121.934	8.249	826.092	1214.752	0.601	15.974	8.249	8.569
2022-09-22 6:45	7836320	8.327	-123.026	8.222	824.574	1213.446	0.601	15.833	8.222	8.540
2022-09-22 7:00	7837220	8.352	-124.407	8.170	821.373	1210.499	0.599	20.999	8.170	8.561
2022-09-22 7:15	7838120	8.331	-123.253	8.152	820.748	1210.164	0.599	14.439	8.152	8.549
2022-09-22 7:30	7839020	8.332	-123.289	8.117	819.996	1210.276	0.599	13.509	8.117	8.477
2022-09-22 7:45	7839920	8.324	-122.838	8.085	819.385	1210.445	0.599	13.781	8.085	8.526

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-22 8:00	7840820	8.375	-125.589	8.036	816.847	1208.362	0.598	18.879	8.036	8.478
2022-09-22 8:15	7841720	8.321	-122.628	7.996	816.478	1209.200	0.598	16.333	7.996	8.376
2022-09-22 8:30	7842620	8.328	-122.967	7.956	815.913	1209.745	0.598	14.538	7.956	8.499
2022-09-22 8:45	7843520	8.325	-122.809	7.919	815.304	1210.109	0.598	14.545	7.919	8.451
2022-09-22 9:00	7844420	8.362	-124.824	7.895	813.214	1207.822	0.597	14.785	7.895	8.409
2022-09-22 9:15	7845320	8.335	-123.332	7.874	812.528	1207.503	0.597	13.215	7.874	8.446
2022-09-22 9:30	7846220	8.324	-122.716	7.847	811.566	1206.998	0.597	14.345	7.847	8.546
2022-09-22 9:45	7847120	8.335	-123.303	7.831	810.666	1206.212	0.596	14.630	7.831	8.532
2022-09-22 10:00	7848020	8.375	-125.487	7.817	808.818	1203.940	0.595	17.215	7.817	8.480
2022-09-22 10:15	7848920	8.323	-122.671	7.818	807.952	1202.629	0.594	13.275	7.818	8.512
2022-09-22 10:30	7849820	8.323	-122.645	7.826	807.370	1201.494	0.594	12.676	7.826	8.326
2022-09-22 10:45	7850720	8.316	-122.280	7.841	807.056	1200.499	0.593	11.914	7.841	8.252
2022-09-22 11:00	7851620	8.345	-123.880	7.859	806.011	1198.323	0.592	19.658	7.859	8.176
2022-09-22 11:15	7852520	8.307	-121.825	7.876	806.590	1198.632	0.592	14.796	7.876	8.332
2022-09-22 11:30	7853420	8.302	-121.570	7.898	807.368	1199.012	0.593	13.901	7.898	8.202
2022-09-22 11:45	7854320	8.303	-121.624	7.929	807.913	1198.792	0.593	13.354	7.929	8.275
2022-09-22 12:00	7855220	8.362	-124.872	7.996	809.689	1199.148	0.593	49.241	7.996	8.403
2022-09-22 12:15	7856120	8.311	-122.128	8.041	812.977	1202.465	0.595	18.356	8.041	8.243
2022-09-22 12:30	7857020	8.314	-122.278	8.092	815.303	1204.177	0.596	17.882	8.092	8.441
2022-09-22 12:45	7857920	8.332	-123.298	8.122	815.909	1204.047	0.596	17.898	8.122	8.735
2022-09-22 13:00	7858820	8.363	-124.981	8.174	817.350	1204.420	0.596	13.518	8.174	8.610
2022-09-22 13:15	7859720	8.322	-122.793	8.216	817.574	1203.325	0.595	13.047	8.216	8.397
2022-09-22 13:30	7860620	8.309	-122.073	8.264	818.639	1203.260	0.595	11.907	8.264	8.768
2022-09-22 13:45	7861520	8.304	-121.865	8.345	820.552	1203.366	0.596	12.099	8.345	8.776
2022-09-22 14:00	7862420	8.344	-124.047	8.409	826.600	1210.062	0.599	20.002	8.409	8.811
2022-09-22 14:15	7863320	8.315	-122.468	8.438	828.222	1211.455	0.600	13.571	8.438	9.071
2022-09-22 14:30	7864220	8.317	-122.597	8.470	829.002	1211.500	0.600	12.513	8.470	9.207
2022-09-22 14:45	7865120	8.291	-121.238	8.505	830.100	1211.916	0.600	12.442	8.505	9.280
2022-09-22 15:00	7866020	8.351	-124.507	8.526	830.662	1212.034	0.600	13.140	8.526	9.292
2022-09-22 15:15	7866920	8.333	-123.553	8.573	831.519	1211.696	0.600	13.072	8.573	9.378
2022-09-22 15:30	7867820	8.324	-123.057	8.636	833.062	1211.811	0.600	12.299	8.636	9.654
2022-09-22 15:45	7868720	8.318	-122.771	8.712	835.003	1212.078	0.601	11.908	8.712	9.644
2022-09-22 16:00	7869620	8.385	-126.443	8.818	838.350	1213.374	0.602	16.932	8.818	9.673
2022-09-22 16:15	7870520	8.338	-123.944	8.902	839.622	1212.413	0.601	13.731	8.902	9.790
2022-09-22 16:30	7871420	8.359	-125.163	9.076	841.608	1209.470	0.600	12.601	9.076	10.126
2022-09-22 16:45	7872320	8.323	-123.229	9.141	842.448	1208.503	0.600	16.147	9.141	9.866
2022-09-22 17:00	7873220	8.372	-125.878	9.059	840.850	1208.952	0.600	16.077	9.059	9.842
2022-09-22 17:15	7874120	8.368	-125.611	9.027	840.467	1209.459	0.600	15.546	9.027	10.046
2022-09-22 17:30	7875020	8.359	-125.144	9.064	841.368	1209.532	0.600	14.105	9.064	10.138
2022-09-22 17:45	7875920	8.352	-124.788	9.143	843.116	1209.395	0.600	12.942	9.143	10.476
2022-09-22 18:00	7876820	8.417	-128.398	9.236	844.478	1208.267	0.600	15.140	9.236	10.348
2022-09-22 18:15	7877720	8.374	-126.069	9.285	844.567	1206.793	0.599	13.994	9.285	10.383
2022-09-22 18:30	7878620	8.366	-125.656	9.386	846.657	1206.457	0.599	13.312	9.386	10.319
2022-09-22 18:45	7879520	8.353	-125.043	9.486	848.974	1206.464	0.599	14.905	9.486	10.472

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-22 19:00	7880420	8.393	-127.263	9.609	850.473	1204.585	0.598	13.453	9.609	10.767
2022-09-22 19:15	7881320	8.346	-124.743	9.688	851.799	1203.894	0.598	12.689	9.688	10.434
2022-09-22 19:30	7882220	8.340	-124.443	9.785	853.813	1203.579	0.598	12.348	9.785	9.952
2022-09-22 19:45	7883120	8.350	-124.993	9.840	854.088	1202.173	0.597	14.187	9.840	9.904
2022-09-22 20:00	7884020	8.403	-127.933	9.901	853.889	1199.952	0.596	20.340	9.901	9.812
2022-09-22 20:15	7884920	8.352	-125.167	9.934	854.148	1199.245	0.596	12.486	9.934	9.657
2022-09-22 20:30	7885820	8.338	-124.412	9.976	855.296	1199.520	0.596	11.819	9.976	9.651
2022-09-22 20:45	7886720	8.332	-124.083	10.006	855.988	1199.508	0.596	11.250	10.006	9.622
2022-09-22 21:00	7887620	8.367	-126.026	10.036	854.646	1196.672	0.595	13.632	10.036	9.505
2022-09-22 21:15	7888520	8.326	-123.801	10.048	852.958	1193.924	0.593	11.655	10.048	9.490
2022-09-22 21:30	7889420	8.317	-123.329	10.056	853.345	1194.208	0.593	11.469	10.056	9.585
2022-09-22 21:45	7890320	8.310	-122.921	10.064	853.262	1193.828	0.593	11.090	10.064	9.378
2022-09-22 22:00	7891220	8.361	-125.694	10.079	852.035	1191.638	0.592	12.719	10.079	9.256
2022-09-22 22:15	7892120	8.328	-123.918	10.093	850.963	1189.704	0.591	11.557	10.093	9.147
2022-09-22 22:30	7893020	8.318	-123.401	10.110	851.465	1189.847	0.591	11.129	10.110	9.001
2022-09-22 22:45	7893920	8.318	-123.384	10.126	851.946	1190.036	0.591	10.876	10.126	9.007
2022-09-22 23:00	7894820	8.350	-125.155	10.153	849.056	1185.146	0.589	11.809	10.153	8.960
2022-09-22 23:15	7895720	8.311	-123.041	10.163	848.957	1184.664	0.589	11.393	10.163	9.005
2022-09-22 23:30	7896620	8.302	-122.526	10.147	849.424	1185.823	0.589	11.251	10.147	8.740
2022-09-22 23:45	7897520	8.330	-123.887	9.753	849.131	1198.017	0.595	15.795	9.753	8.748
2022-09-23 0:00	7898420	8.405	-127.857	9.543	846.645	1201.298	0.596	16.539	9.543	9.806
2022-09-23 0:15	7899320	8.368	-125.833	9.505	845.772	1201.310	0.596	14.784	9.505	9.885
2022-09-23 0:30	7900220	8.369	-125.885	9.535	844.737	1198.859	0.595	13.285	9.535	9.837
2022-09-23 0:45	7901120	8.361	-125.487	9.579	844.652	1197.311	0.594	13.063	9.579	9.663
2022-09-23 1:00	7902020	8.383	-126.700	9.640	843.407	1193.562	0.593	14.239	9.640	9.612
2022-09-23 1:15	7902920	8.344	-124.619	9.675	843.474	1192.535	0.592	12.935	9.675	9.570
2022-09-23 1:30	7903820	8.332	-123.997	9.724	843.144	1190.497	0.591	13.184	9.724	9.489
2022-09-23 1:45	7904720	8.329	-123.830	9.774	842.170	1187.511	0.590	11.959	9.774	9.381
2022-09-23 2:00	7905620	8.380	-126.624	9.818	840.977	1184.449	0.588	40.187	9.818	9.374
2022-09-23 2:15	7906520	8.337	-124.319	9.846	839.806	1181.901	0.587	12.468	9.846	9.121
2022-09-23 2:30	7907420	8.329	-123.889	9.886	840.424	1181.505	0.587	16.194	9.886	9.190
2022-09-23 2:45	7908320	8.339	-124.419	9.912	840.468	1180.744	0.586	14.783	9.912	9.132
2022-09-23 3:00	7909220	8.355	-125.334	9.942	839.047	1177.788	0.585	12.181	9.942	8.734
2022-09-23 3:15	7910120	8.317	-123.258	9.953	837.504	1175.267	0.583	11.375	9.953	8.792
2022-09-23 3:30	7911020	8.313	-123.055	9.968	837.289	1174.510	0.583	10.699	9.968	8.694
2022-09-23 3:45	7911920	8.316	-123.212	9.984	836.038	1172.251	0.582	10.268	9.984	8.896
2022-09-23 4:00	7912820	8.375	-126.441	9.998	828.332	1161.017	0.576	15.497	9.998	8.695
2022-09-23 4:15	7913720	8.331	-124.030	10.002	827.884	1160.244	0.576	11.238	10.002	8.714
2022-09-23 4:30	7914620	8.336	-124.326	10.007	827.406	1159.433	0.575	10.752	10.007	8.765
2022-09-23 4:45	7915521	8.331	-124.047	10.006	826.062	1157.588	0.574	10.246	10.006	8.761
2022-09-23 5:00	7916421	8.362	-125.725	10.003	821.302	1150.994	0.571	10.617	10.003	8.582
2022-09-23 5:15	7917321	8.320	-123.446	10.000	821.066	1150.756	0.571	10.443	10.000	8.580
2022-09-23 5:30	7918221	8.318	-123.358	9.994	820.367	1149.948	0.570	10.276	9.994	8.462
2022-09-23 5:45	7919121	8.321	-123.475	9.988	819.928	1149.538	0.570	9.955	9.988	8.367

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-23 6:00	7920021	8.370	-126.185	9.978	818.990	1148.522	0.570	12.169	9.978	8.196
2022-09-23 6:15	7920921	8.329	-123.904	9.973	817.147	1146.108	0.568	10.979	9.973	8.054
2022-09-23 6:30	7921821	8.321	-123.463	9.965	816.833	1145.906	0.568	10.564	9.965	7.919
2022-09-23 6:45	7922721	8.314	-123.103	9.959	816.180	1145.178	0.568	9.518	9.959	7.776
2022-09-23 7:00	7923621	8.337	-124.371	9.944	813.404	1141.721	0.566	10.387	9.944	7.841
2022-09-23 7:15	7924521	8.305	-122.614	9.936	813.116	1141.561	0.566	10.067	9.936	7.822
2022-09-23 7:30	7925421	8.294	-121.980	9.926	812.924	1141.614	0.566	9.680	9.926	7.775
2022-09-23 7:45	7926321	8.295	-122.051	9.915	812.859	1141.839	0.566	10.130	9.915	7.765
2022-09-23 8:00	7927221	8.337	-124.350	9.906	814.948	1145.050	0.568	12.911	9.906	7.459
2022-09-23 8:15	7928121	8.305	-122.561	9.904	814.573	1144.614	0.568	11.352	9.904	7.481
2022-09-23 8:30	7929021	8.296	-122.111	9.902	814.988	1145.238	0.568	10.240	9.902	7.374
2022-09-23 8:45	7929921	8.294	-122.006	9.898	815.247	1145.728	0.568	10.177	9.898	7.214
2022-09-23 9:00	7930821	8.317	-123.231	9.899	815.000	1145.366	0.568	12.547	9.899	7.131
2022-09-23 9:15	7931721	8.276	-121.000	9.898	814.559	1144.776	0.568	10.177	9.898	7.048
2022-09-23 9:30	7932621	8.264	-120.335	9.887	815.479	1146.388	0.568	11.235	9.887	6.858
2022-09-23 9:45	7933521	8.260	-120.122	9.875	815.685	1147.052	0.569	10.968	9.875	6.962
2022-09-23 10:00	7934421	8.338	-124.335	9.830	817.721	1151.307	0.571	16.233	9.830	7.178
2022-09-23 10:15	7935321	8.333	-124.063	9.804	825.590	1163.211	0.577	14.753	9.804	8.426
2022-09-23 10:30	7936221	8.348	-124.860	9.803	826.873	1165.030	0.578	42.318	9.803	8.600
2022-09-23 10:45	7937121	8.357	-125.363	9.807	827.793	1166.201	0.579	82.856	9.807	8.448
2022-09-23 11:00	7938021	8.390	-127.163	9.831	824.368	1160.650	0.576	13.137	9.831	8.474
2022-09-23 11:15	7938921	8.353	-125.163	9.851	823.211	1158.375	0.575	11.243	9.851	8.581
2022-09-23 11:30	7939821	8.352	-125.120	9.877	820.797	1154.195	0.573	11.313	9.877	8.427
2022-09-23 11:45	7940721	8.338	-124.381	9.913	819.936	1151.847	0.571	10.753	9.913	8.416
2022-09-23 12:00	7941621	8.399	-127.718	9.953	818.741	1148.939	0.570	13.059	9.953	8.554
2022-09-23 12:15	7942521	8.360	-125.632	9.965	817.797	1147.260	0.569	12.450	9.965	8.567
2022-09-23 12:30	7943421	8.344	-124.717	9.975	818.612	1148.080	0.569	13.424	9.975	8.558
2022-09-23 12:45	7944321	8.362	-125.718	9.977	819.729	1149.602	0.570	10.237	9.977	8.533
2022-09-23 13:00	7945221	8.407	-128.195	9.982	814.775	1142.479	0.567	12.380	9.982	8.563
2022-09-23 13:15	7946121	8.378	-126.629	9.996	815.246	1142.715	0.567	11.830	9.996	8.940
2022-09-23 13:30	7947021	8.392	-127.356	10.019	815.251	1142.028	0.566	11.988	10.019	9.329
2022-09-23 13:45	7947921	8.394	-127.513	10.045	813.411	1138.662	0.565	12.924	10.045	9.181
2022-09-23 14:00	7948821	8.444	-130.272	10.133	813.806	1136.526	0.564	14.370	10.133	9.415
2022-09-23 14:15	7949721	8.417	-128.820	10.192	812.732	1133.261	0.562	12.670	10.192	9.809
2022-09-23 14:30	7950621	8.422	-129.130	10.267	810.846	1128.363	0.560	12.148	10.267	9.782
2022-09-23 14:45	7951521	8.439	-130.095	10.330	809.045	1123.994	0.557	11.650	10.330	9.853
2022-09-23 15:00	7952421	8.468	-131.681	10.395	805.882	1117.660	0.554	12.354	10.395	9.920
2022-09-23 15:15	7953321	8.426	-129.423	10.474	806.484	1116.154	0.554	11.913	10.474	10.061
2022-09-23 15:30	7954221	8.419	-129.116	10.549	815.856	1126.896	0.559	11.698	10.549	10.074
2022-09-23 15:45	7955121	8.452	-130.901	10.586	802.070	1106.773	0.549	11.542	10.586	10.193
2022-09-23 16:00	7956021	8.498	-133.436	10.642	794.115	1094.189	0.542	16.790	10.642	10.303
2022-09-23 16:15	7956921	8.454	-131.099	10.736	793.809	1091.071	0.541	15.037	10.736	10.303
2022-09-23 16:30	7957821	8.458	-131.328	10.792	799.801	1097.691	0.544	12.668	10.792	10.422
2022-09-23 16:45	7958721	8.441	-130.427	10.834	803.114	1101.026	0.546	12.601	10.834	10.245

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-23 17:00	7959621	8.475	-132.291	10.890	808.962	1107.404	0.550	12.019	10.890	10.059
2022-09-23 17:15	7960521	8.454	-131.180	10.913	809.254	1107.148	0.549	12.540	10.913	10.285
2022-09-23 17:30	7961421	8.444	-130.644	10.949	810.649	1108.002	0.550	12.453	10.949	10.270
2022-09-23 17:45	7962321	8.430	-129.871	10.978	811.011	1107.668	0.550	13.059	10.978	10.309
2022-09-23 18:00	7963221	8.477	-132.501	11.010	813.524	1110.169	0.551	15.774	11.010	10.115
2022-09-23 18:15	7964121	8.443	-130.610	11.017	812.186	1108.133	0.550	11.191	11.017	10.207
2022-09-23 18:30	7965021	8.448	-130.882	11.009	810.488	1106.060	0.549	11.814	11.009	10.234
2022-09-23 18:45	7965921	8.462	-131.629	10.987	804.610	1098.678	0.545	13.084	10.987	10.227
2022-09-23 19:00	7966821	8.477	-132.458	10.955	803.330	1097.847	0.545	12.323	10.955	9.950
2022-09-23 19:15	7967721	8.451	-131.042	10.922	803.067	1098.431	0.545	14.005	10.922	9.960
2022-09-23 19:30	7968621	8.445	-130.680	10.892	801.824	1097.571	0.545	14.302	10.892	9.819
2022-09-23 19:45	7969521	8.408	-128.651	10.859	804.372	1102.013	0.547	14.220	10.859	9.628
2022-09-23 20:00	7970421	8.459	-131.426	10.849	803.527	1101.159	0.546	14.078	10.849	9.607
2022-09-23 20:15	7971321	8.433	-129.995	10.843	800.426	1097.079	0.544	13.973	10.843	9.659
2022-09-23 20:30	7972221	8.423	-129.449	10.832	798.400	1094.624	0.543	11.863	10.832	9.525
2022-09-23 20:45	7973121	8.410	-128.729	10.819	796.140	1091.885	0.541	10.313	10.819	9.514
2022-09-23 21:00	7974021	8.427	-129.657	10.767	789.985	1084.926	0.538	12.409	10.767	9.287
2022-09-23 21:15	7974921	8.396	-127.931	10.740	787.510	1082.292	0.536	11.460	10.740	9.434
2022-09-23 21:30	7975821	8.396	-127.940	10.713	785.945	1080.894	0.536	10.512	10.713	9.527
2022-09-23 21:45	7976721	8.391	-127.649	10.688	783.424	1078.140	0.534	12.098	10.688	9.405
2022-09-23 22:00	7977621	8.452	-130.916	10.629	770.880	1062.526	0.526	21.238	10.629	9.232
2022-09-23 22:15	7978521	8.415	-128.865	10.572	767.373	1059.278	0.524	15.047	10.572	8.993
2022-09-23 22:30	7979421	8.422	-129.225	10.471	763.076	1056.158	0.523	13.722	10.471	8.978
2022-09-23 22:45	7980321	8.400	-127.966	10.378	760.591	1055.322	0.522	13.868	10.378	8.898
2022-09-23 23:00	7981221	8.434	-129.786	10.320	754.922	1049.060	0.519	13.150	10.320	8.795
2022-09-23 23:15	7982121	8.394	-127.602	10.303	753.672	1047.800	0.518	12.471	10.303	8.701
2022-09-23 23:30	7983021	8.399	-127.883	10.279	751.366	1045.270	0.517	13.977	10.279	8.537
2022-09-23 23:45	7983921	8.395	-127.676	10.260	752.692	1047.634	0.518	12.128	10.260	8.348
2022-09-24 0:00	7984821	8.425	-129.275	10.228	752.683	1048.504	0.518	18.088	10.228	8.353
2022-09-24 0:15	7985721	8.383	-126.963	10.206	750.694	1046.352	0.517	13.667	10.206	8.262
2022-09-24 0:30	7986621	8.388	-127.211	10.177	749.719	1045.807	0.517	13.458	10.177	8.178
2022-09-24 0:45	7987521	8.396	-127.635	10.141	747.838	1044.177	0.516	12.047	10.141	8.240
2022-09-24 1:00	7988421	8.420	-128.951	10.119	746.077	1042.347	0.515	11.448	10.119	8.233
2022-09-24 1:15	7989321	8.371	-126.281	10.107	744.008	1039.786	0.514	12.340	10.107	8.346
2022-09-24 1:30	7990221	8.366	-126.019	10.083	742.275	1038.031	0.513	12.003	10.083	8.348
2022-09-24 1:45	7991121	8.366	-125.976	10.048	741.374	1037.720	0.513	12.748	10.048	8.335
2022-09-24 2:00	7992021	8.420	-128.870	9.968	738.839	1036.398	0.512	13.636	9.968	8.245
2022-09-24 2:15	7992921	8.387	-127.041	9.916	736.234	1034.200	0.511	13.592	9.916	8.027
2022-09-24 2:30	7993821	8.423	-129.004	9.862	732.599	1030.568	0.509	14.010	9.862	8.360
2022-09-24 2:45	7994721	8.412	-128.353	9.797	730.459	1029.374	0.508	14.729	9.797	8.664
2022-09-24 3:00	7995621	8.430	-129.321	9.757	728.977	1028.370	0.508	12.852	9.757	8.488
2022-09-24 3:15	7996521	8.394	-127.366	9.735	728.245	1027.954	0.507	14.071	9.735	8.306
2022-09-24 3:30	7997421	8.387	-126.987	9.705	728.697	1029.430	0.508	13.388	9.705	8.123
2022-09-24 3:45	7998321	8.377	-126.379	9.652	727.800	1029.621	0.508	13.323	9.652	7.961

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-24 4:00	7999221	8.425	-128.999	9.574	725.536	1028.606	0.507	16.681	9.574	8.059
2022-09-24 4:15	8000121	8.410	-128.140	9.550	723.456	1026.316	0.506	14.652	9.550	8.201
2022-09-24 4:30	8001021	8.404	-127.816	9.523	723.399	1026.979	0.507	14.341	9.523	8.095
2022-09-24 4:45	8001921	8.392	-127.132	9.512	723.112	1026.877	0.507	13.364	9.512	7.918
2022-09-24 5:00	8002821	8.406	-127.907	9.495	721.602	1025.219	0.506	12.881	9.495	7.779
2022-09-24 5:15	8003721	8.377	-126.319	9.463	723.659	1029.022	0.508	15.021	9.463	7.875
2022-09-24 5:30	8004621	8.316	-123.010	9.442	726.315	1033.391	0.510	15.601	9.442	7.861
2022-09-24 5:45	8005521	8.334	-123.954	9.424	726.090	1033.595	0.510	15.396	9.424	7.761
2022-09-24 6:00	8006421	8.402	-127.649	9.407	724.660	1032.024	0.509	14.153	9.407	7.613
2022-09-24 6:15	8007321	8.368	-125.782	9.401	723.707	1030.835	0.508	13.676	9.401	7.551
2022-09-24 6:30	8008221	8.366	-125.673	9.396	723.790	1031.107	0.509	13.788	9.396	7.499
2022-09-24 6:45	8009121	8.356	-125.144	9.390	724.199	1031.837	0.509	13.753	9.390	7.345
2022-09-24 7:00	8010021	8.380	-126.467	9.384	723.442	1030.941	0.508	11.711	9.384	7.143
2022-09-24 7:15	8010921	8.327	-123.558	9.364	723.262	1031.249	0.509	12.876	9.364	7.017
2022-09-24 7:30	8011821	8.338	-124.133	9.340	721.948	1030.042	0.508	12.877	9.340	7.206
2022-09-24 7:45	8012721	8.339	-124.166	9.313	720.119	1028.179	0.507	13.534	9.313	7.192
2022-09-24 8:00	8013621	8.410	-128.040	9.259	716.787	1024.950	0.505	18.797	9.259	7.342
2022-09-24 8:15	8014521	8.380	-126.350	9.195	714.679	1023.699	0.505	15.816	9.195	7.663
2022-09-24 8:30	8015421	8.382	-126.441	9.140	715.931	1027.062	0.506	16.223	9.140	8.280
2022-09-24 8:45	8016321	8.386	-126.631	9.102	716.671	1029.186	0.507	14.079	9.102	8.222
2022-09-24 9:00	8017221	8.427	-128.882	9.090	715.419	1027.728	0.506	13.105	9.090	8.051
2022-09-24 9:15	8018121	8.410	-127.943	9.077	713.357	1025.138	0.505	14.957	9.077	8.253
2022-09-24 9:30	8019021	8.405	-127.661	9.068	713.781	1025.981	0.506	17.662	9.068	8.077
2022-09-24 9:45	8019921	8.407	-127.742	9.048	713.689	1026.425	0.506	14.655	9.048	7.912
2022-09-24 10:00	8020821	8.452	-130.188	9.034	715.169	1028.946	0.507	16.890	9.034	7.805
2022-09-24 10:15	8021721	8.426	-128.787	9.013	714.680	1028.840	0.507	16.378	9.013	8.222
2022-09-24 10:30	8022621	8.388	-126.693	8.980	716.605	1032.552	0.509	17.437	8.980	8.468
2022-09-24 10:45	8023522	8.413	-128.059	8.978	716.973	1033.130	0.509	16.644	8.978	8.351
2022-09-24 11:00	8024422	8.464	-130.823	8.957	717.075	1033.887	0.509	13.880	8.957	8.224
2022-09-24 11:15	8025322	8.433	-129.142	8.936	717.641	1035.305	0.510	16.998	8.936	8.358
2022-09-24 11:30	8026222	8.429	-128.913	8.922	717.320	1035.218	0.510	16.592	8.922	8.369
2022-09-24 11:45	8027122	8.426	-128.732	8.924	716.470	1033.942	0.509	16.589	8.924	8.241
2022-09-24 12:00	8028022	8.462	-130.701	8.939	714.005	1029.975	0.507	14.795	8.939	8.119
2022-09-24 12:15	8028922	8.419	-128.376	8.945	712.171	1027.155	0.506	13.519	8.945	8.226
2022-09-24 12:30	8029822	8.409	-127.811	8.950	710.541	1024.667	0.505	14.931	8.950	8.096
2022-09-24 12:45	8030722	8.399	-127.292	8.956	709.856	1023.498	0.504	14.532	8.956	7.917
2022-09-24 13:00	8031622	8.435	-129.240	8.973	714.110	1029.159	0.507	14.063	8.973	7.816
2022-09-24 13:15	8032522	8.428	-128.875	8.989	713.580	1027.923	0.506	14.941	8.989	8.494
2022-09-24 13:30	8033422	8.424	-128.672	9.022	714.081	1027.707	0.506	15.439	9.022	8.355
2022-09-24 13:45	8034322	8.416	-128.236	9.046	714.976	1028.323	0.507	15.980	9.046	8.355
2022-09-24 14:00	8035222	8.465	-130.935	9.108	715.358	1027.127	0.506	14.412	9.108	8.448
2022-09-24 14:15	8036122	8.444	-129.824	9.158	714.546	1024.573	0.505	16.761	9.158	8.729
2022-09-24 14:30	8037022	8.451	-130.255	9.253	713.660	1020.647	0.503	15.875	9.253	8.928
2022-09-24 14:45	8037922	8.436	-129.488	9.365	715.894	1020.718	0.503	15.750	9.365	9.003

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-24 15:00	8038822	8.479	-131.850	9.453	712.588	1013.567	0.500	15.049	9.453	9.049
2022-09-24 15:15	8039722	8.459	-130.792	9.527	714.030	1013.564	0.500	16.686	9.527	9.320
2022-09-24 15:30	8040622	8.445	-130.100	9.609	716.564	1014.903	0.501	16.808	9.609	9.306
2022-09-24 15:45	8041522	8.458	-130.846	9.692	716.916	1013.135	0.500	17.980	9.692	9.798
2022-09-24 16:00	8042422	8.509	-133.646	9.793	714.033	1006.323	0.496	16.019	9.793	9.705
2022-09-24 16:15	8043322	8.480	-132.089	9.855	712.187	1002.062	0.494	15.863	9.855	9.732
2022-09-24 16:30	8044222	8.465	-131.309	9.918	711.175	998.929	0.493	18.757	9.918	9.744
2022-09-24 16:45	8045122	8.462	-131.164	9.986	711.861	998.086	0.492	15.551	9.986	9.767
2022-09-24 17:00	8046022	8.499	-133.226	10.062	710.096	993.587	0.490	14.035	10.062	9.765
2022-09-24 17:15	8046922	8.467	-131.526	10.113	709.880	991.931	0.489	19.281	10.113	9.877
2022-09-24 17:30	8047822	8.475	-132.008	10.172	709.498	989.823	0.488	19.643	10.172	9.956
2022-09-24 17:45	8048722	8.462	-131.271	10.218	708.797	987.643	0.487	17.424	10.218	9.807
2022-09-24 18:00	8049622	8.521	-134.528	10.272	708.804	986.249	0.487	15.528	10.272	9.692
2022-09-24 18:15	8050522	8.459	-131.199	10.318	715.572	994.444	0.491	22.657	10.318	10.054
2022-09-24 18:30	8051422	8.503	-133.610	10.329	716.781	995.817	0.492	52.111	10.329	10.061
2022-09-24 18:45	8052322	8.459	-131.207	10.347	719.981	999.786	0.494	22.620	10.347	9.965
2022-09-24 19:00	8053222	8.499	-133.369	10.360	722.887	1003.483	0.495	12.730	10.360	9.947
2022-09-24 19:15	8054122	8.486	-132.663	10.376	727.070	1008.870	0.498	17.053	10.376	9.968
2022-09-24 19:30	8055022	8.484	-132.563	10.374	723.605	1004.105	0.496	14.938	10.374	9.892
2022-09-24 19:45	8055922	8.505	-133.722	10.370	720.902	1000.457	0.494	15.633	10.370	9.921
2022-09-24 20:00	8056822	8.533	-135.236	10.362	719.896	999.279	0.493	13.611	10.362	9.707
2022-09-24 20:15	8057722	8.490	-132.902	10.356	718.092	996.930	0.492	18.134	10.356	9.848
2022-09-24 20:30	8058622	8.470	-131.807	10.358	717.631	996.242	0.492	17.422	10.358	9.580
2022-09-24 20:45	8059522	8.428	-129.492	10.357	717.410	995.971	0.492	18.861	10.357	9.244
2022-09-24 21:00	8060422	8.455	-130.959	10.349	715.792	993.918	0.491	12.183	10.349	8.976
2022-09-24 21:15	8061322	8.422	-129.161	10.339	713.593	991.124	0.489	13.271	10.339	8.865
2022-09-24 21:30	8062222	8.417	-128.903	10.337	711.870	988.802	0.488	12.929	10.337	8.692
2022-09-24 21:45	8063122	8.405	-128.245	10.333	711.519	988.403	0.488	13.236	10.333	8.579
2022-09-24 22:00	8064022	8.444	-130.336	10.328	711.720	988.825	0.488	10.852	10.328	8.539
2022-09-24 22:15	8064922	8.427	-129.437	10.328	709.163	985.276	0.486	12.079	10.328	8.545
2022-09-24 22:30	8065822	8.418	-128.918	10.322	709.086	985.322	0.486	13.196	10.322	8.544
2022-09-24 22:45	8066722	8.414	-128.720	10.316	708.768	985.043	0.486	12.772	10.316	8.419
2022-09-24 23:00	8067622	8.434	-129.807	10.317	708.396	984.502	0.486	11.876	10.317	8.288
2022-09-24 23:15	8068522	8.402	-128.059	10.318	707.332	982.981	0.485	11.436	10.318	8.182
2022-09-24 23:30	8069422	8.400	-127.966	10.312	705.925	981.179	0.484	10.145	10.312	8.130
2022-09-24 23:45	8070322	8.387	-127.256	10.305	706.154	981.676	0.484	12.599	10.305	8.099
2022-09-25 0:00	8071222	8.429	-129.504	10.301	705.977	981.539	0.484	11.296	10.301	8.217
2022-09-25 0:15	8072122	8.403	-128.081	10.298	703.594	978.315	0.483	12.166	10.298	8.280
2022-09-25 0:30	8073022	8.392	-127.518	10.287	703.807	978.889	0.483	13.616	10.287	8.103
2022-09-25 0:45	8073922	8.377	-126.660	10.270	703.227	978.523	0.483	12.844	10.270	8.033
2022-09-25 1:00	8074822	8.407	-128.312	10.258	703.023	978.546	0.483	11.523	10.258	8.047
2022-09-25 1:15	8075722	8.384	-127.027	10.251	702.861	978.525	0.483	13.202	10.251	8.268
2022-09-25 1:30	8076622	8.383	-126.965	10.234	702.639	978.655	0.483	12.661	10.234	8.626
2022-09-25 1:45	8077522	8.378	-126.719	10.225	702.388	978.535	0.483	12.390	10.225	8.595

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-25 2:00	8078422	8.424	-129.216	10.202	702.076	978.690	0.483	13.551	10.202	8.411
2022-09-25 2:15	8079322	8.400	-127.871	10.163	700.241	977.165	0.482	14.651	10.163	8.562
2022-09-25 2:30	8080222	8.410	-128.424	10.135	699.571	976.952	0.482	13.990	10.135	8.634
2022-09-25 2:45	8081122	8.414	-128.617	10.129	699.080	976.418	0.481	13.944	10.129	8.692
2022-09-25 3:00	8082022	8.444	-130.289	10.140	701.981	980.176	0.483	12.609	10.140	8.542
2022-09-25 3:15	8082922	8.397	-127.687	10.140	702.194	980.486	0.483	14.116	10.140	8.253
2022-09-25 3:30	8083822	8.379	-126.691	10.111	702.201	981.252	0.484	14.462	10.111	8.361
2022-09-25 3:45	8084722	8.380	-126.734	10.078	700.308	979.455	0.483	14.545	10.078	8.449
2022-09-25 4:00	8085622	8.424	-129.154	10.058	699.062	978.246	0.482	13.661	10.058	8.356
2022-09-25 4:15	8086522	8.391	-127.332	10.039	698.051	977.323	0.482	14.705	10.039	8.350
2022-09-25 4:30	8087422	8.391	-127.337	10.022	697.363	976.820	0.481	14.701	10.022	8.334
2022-09-25 4:45	8088322	8.387	-127.070	9.986	695.294	974.843	0.480	14.122	9.986	8.303
2022-09-25 5:00	8089222	8.428	-129.311	9.977	695.911	975.945	0.481	15.106	9.977	8.320
2022-09-25 5:15	8090122	8.397	-127.609	9.973	696.043	976.233	0.481	13.261	9.973	8.294
2022-09-25 5:30	8091022	8.391	-127.289	9.961	696.677	977.446	0.482	14.359	9.961	8.039
2022-09-25 5:45	8091922	8.378	-126.591	9.945	696.548	977.672	0.482	13.848	9.945	7.926
2022-09-25 6:00	8092822	8.409	-128.300	9.944	697.407	978.921	0.482	12.643	9.944	8.032
2022-09-25 6:15	8093722	8.372	-126.257	9.937	696.620	977.997	0.482	13.852	9.937	8.040
2022-09-25 6:30	8094622	8.381	-126.746	9.939	696.930	978.377	0.482	12.632	9.939	7.980
2022-09-25 6:45	8095522	8.372	-126.257	9.949	696.395	977.355	0.482	12.772	9.949	7.662
2022-09-25 7:00	8096422	8.383	-126.874	9.941	697.986	979.802	0.483	13.512	9.941	7.452
2022-09-25 7:15	8097322	8.336	-124.278	9.938	698.754	980.962	0.483	12.569	9.938	7.369
2022-09-25 7:30	8098222	8.329	-123.889	9.929	700.095	983.093	0.485	12.854	9.929	7.250
2022-09-25 7:45	8099122	8.326	-123.706	9.910	699.947	983.371	0.485	12.930	9.910	7.245
2022-09-25 8:00	8100022	8.364	-125.809	9.902	700.808	984.799	0.485	21.062	9.902	7.300
2022-09-25 8:15	8100922	8.325	-123.677	9.899	700.430	984.353	0.485	12.871	9.899	7.366
2022-09-25 8:30	8101822	8.321	-123.467	9.903	702.177	986.700	0.486	12.692	9.903	7.283
2022-09-25 8:45	8102722	8.322	-123.496	9.910	704.211	989.370	0.488	13.484	9.910	7.198
2022-09-25 9:00	8103622	8.350	-125.029	9.905	703.748	988.851	0.488	12.401	9.905	7.135
2022-09-25 9:15	8104522	8.321	-123.475	9.914	703.655	988.469	0.487	12.878	9.914	7.250
2022-09-25 9:30	8105422	8.319	-123.339	9.896	701.589	986.057	0.486	13.060	9.896	7.305
2022-09-25 9:45	8106322	8.321	-123.463	9.893	701.026	985.339	0.486	13.366	9.893	7.318
2022-09-25 10:00	8107222	8.374	-126.314	9.886	700.137	984.285	0.485	12.854	9.886	7.471
2022-09-25 10:15	8108122	8.349	-124.972	9.886	699.347	983.162	0.485	12.515	9.886	7.618
2022-09-25 10:30	8109022	8.356	-125.358	9.895	698.609	981.899	0.484	12.434	9.895	7.685
2022-09-25 10:45	8109922	8.359	-125.518	9.901	698.547	981.640	0.484	12.184	9.901	7.632
2022-09-25 11:00	8110822	8.407	-128.164	9.891	695.677	977.864	0.482	12.212	9.891	7.874
2022-09-25 11:15	8111722	8.398	-127.654	9.884	695.155	977.313	0.482	13.137	9.884	8.075
2022-09-25 11:30	8112622	8.394	-127.428	9.873	694.009	975.989	0.481	65.267	9.873	8.128
2022-09-25 11:45	8113522	8.405	-128.016	9.856	693.179	975.273	0.480	15.559	9.856	8.216
2022-09-25 12:00	8114422	8.475	-131.826	9.851	692.636	974.634	0.480	26.297	9.851	8.250
2022-09-25 12:15	8115322	8.445	-130.169	9.821	690.272	972.099	0.479	14.260	9.821	8.591
2022-09-25 12:30	8116222	8.440	-129.910	9.802	690.398	972.766	0.479	13.358	9.802	8.500
2022-09-25 12:45	8117122	8.440	-129.883	9.788	690.496	973.294	0.479	13.105	9.788	8.400

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-25 13:00	8118022	8.457	-130.799	9.773	693.420	977.802	0.482	14.359	9.773	8.821
2022-09-25 13:15	8118922	8.443	-130.060	9.780	695.218	980.141	0.483	13.107	9.780	8.845
2022-09-25 13:30	8119822	8.449	-130.374	9.773	695.137	980.229	0.483	12.629	9.773	8.780
2022-09-25 13:45	8120722	8.445	-130.179	9.804	694.738	978.836	0.482	13.228	9.804	9.003
2022-09-25 14:00	8121622	8.484	-132.370	9.901	695.115	976.825	0.481	24.654	9.901	9.068
2022-09-25 14:15	8122522	8.453	-130.675	9.990	696.535	976.490	0.481	13.227	9.990	9.124
2022-09-25 14:30	8123422	8.451	-130.627	10.095	698.086	975.906	0.481	12.999	10.095	9.326
2022-09-25 14:45	8124322	8.436	-129.862	10.181	699.417	975.539	0.481	12.600	10.181	9.238
2022-09-25 15:00	8125222	8.474	-131.979	10.298	699.651	972.825	0.480	13.311	10.298	9.281
2022-09-25 15:15	8126122	8.428	-129.511	10.383	699.189	970.003	0.478	12.256	10.383	9.539
2022-09-25 15:30	8127022	8.433	-129.821	10.506	699.867	967.775	0.477	12.913	10.506	9.615
2022-09-25 15:45	8127922	8.454	-131.035	10.645	700.170	964.657	0.476	12.882	10.645	9.727
2022-09-25 16:00	8128822	8.481	-132.608	10.766	700.751	962.392	0.475	61.744	10.766	9.773
2022-09-25 16:15	8129722	8.453	-131.097	10.818	700.613	960.901	0.474	13.097	10.818	9.783
2022-09-25 16:30	8130622	8.439	-130.353	10.880	701.240	960.202	0.474	12.169	10.880	9.759
2022-09-25 16:45	8131523	8.434	-130.098	10.931	702.035	959.998	0.474	11.756	10.931	9.728
2022-09-25 17:00	8132423	8.462	-131.643	10.997	700.999	956.950	0.472	13.033	10.997	9.607
2022-09-25 17:15	8133323	8.419	-129.302	11.040	700.793	955.585	0.472	12.832	11.040	9.744
2022-09-25 17:30	8134223	8.417	-129.232	11.093	701.664	955.449	0.472	12.192	11.093	9.714
2022-09-25 17:45	8135123	8.413	-129.049	11.149	702.776	955.580	0.472	11.778	11.149	9.734
2022-09-25 18:00	8136023	8.459	-131.593	11.219	702.814	953.890	0.471	15.095	11.219	9.711
2022-09-25 18:15	8136923	8.445	-130.823	11.248	702.322	952.515	0.470	13.325	11.248	9.667
2022-09-25 18:30	8137823	8.433	-130.215	11.276	702.359	951.883	0.470	12.882	11.276	9.662
2022-09-25 18:45	8138723	8.427	-129.910	11.312	703.166	952.070	0.470	12.549	11.312	9.617
2022-09-25 19:00	8139623	8.463	-131.860	11.354	704.926	953.437	0.471	20.731	11.354	9.562
2022-09-25 19:15	8140523	8.428	-129.955	11.377	704.776	952.658	0.470	12.318	11.377	9.823
2022-09-25 19:30	8141423	8.418	-129.428	11.407	705.159	952.445	0.470	11.925	11.407	9.637
2022-09-25 19:45	8142323	8.411	-129.051	11.428	705.174	951.945	0.470	20.767	11.428	9.513
2022-09-25 20:00	8143223	8.443	-130.837	11.449	705.130	951.362	0.470	19.518	11.449	9.422
2022-09-25 20:15	8144123	8.411	-129.054	11.461	703.637	949.062	0.469	11.734	11.461	9.414
2022-09-25 20:30	8145023	8.400	-128.474	11.471	702.687	947.534	0.468	12.434	11.471	9.219
2022-09-25 20:45	8145923	8.402	-128.582	11.476	703.309	948.241	0.468	12.347	11.476	9.062
2022-09-25 21:00	8146823	8.423	-129.745	11.482	704.745	950.033	0.469	11.556	11.482	8.934
2022-09-25 21:15	8147723	8.380	-127.404	11.489	703.185	947.765	0.468	12.373	11.489	8.962
2022-09-25 21:30	8148623	8.369	-126.767	11.494	703.188	947.656	0.468	12.122	11.494	8.806
2022-09-25 21:45	8149523	8.363	-126.462	11.497	703.384	947.836	0.468	11.778	11.497	8.724
2022-09-25 22:00	8150423	8.390	-127.959	11.502	703.928	948.445	0.468	12.247	11.502	8.616
2022-09-25 22:15	8151323	8.366	-126.626	11.507	702.271	946.107	0.467	11.280	11.507	8.503
2022-09-25 22:30	8152223	8.357	-126.140	11.511	700.843	944.084	0.466	11.550	11.511	8.370
2022-09-25 22:45	8153123	8.348	-125.654	11.513	700.544	943.632	0.466	11.727	11.513	8.217
2022-09-25 23:00	8154023	8.370	-126.839	11.515	701.966	945.496	0.467	13.567	11.515	8.092
2022-09-25 23:15	8154923	8.345	-125.480	11.514	700.190	943.126	0.466	11.722	11.514	8.236
2022-09-25 23:30	8155823	8.343	-125.349	11.516	698.399	940.661	0.464	10.915	11.516	8.079
2022-09-25 23:45	8156723	8.350	-125.763	11.522	699.077	941.435	0.465	11.417	11.522	8.026

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-26 0:00	8157623	8.374	-127.099	11.534	700.042	942.436	0.465	13.953	11.534	8.000
2022-09-26 0:15	8158523	8.349	-125.687	11.539	698.578	940.347	0.464	11.867	11.539	8.095
2022-09-26 0:30	8159423	8.337	-125.058	11.543	697.869	939.307	0.464	11.415	11.543	7.912
2022-09-26 0:45	8160323	8.340	-125.222	11.543	699.008	940.836	0.465	11.793	11.543	7.760
2022-09-26 1:00	8161223	8.353	-125.940	11.541	698.646	940.400	0.464	12.441	11.541	7.568
2022-09-26 1:15	8162123	8.326	-124.419	11.537	696.597	937.725	0.463	13.240	11.537	7.764
2022-09-26 1:30	8163023	8.322	-124.249	11.532	695.443	936.304	0.462	12.561	11.532	7.624
2022-09-26 1:45	8163923	8.314	-123.794	11.526	694.695	935.438	0.462	13.007	11.526	7.588
2022-09-26 2:00	8164823	8.338	-125.101	11.522	696.342	937.747	0.463	14.718	11.522	7.550
2022-09-26 2:15	8165723	8.304	-123.243	11.515	695.868	937.265	0.463	14.494	11.515	7.639
2022-09-26 2:30	8166623	8.303	-123.155	11.513	696.096	937.623	0.463	13.680	11.513	7.625
2022-09-26 2:45	8167523	8.294	-122.685	11.511	696.511	938.236	0.463	13.989	11.511	7.471
2022-09-26 3:00	8168423	8.321	-124.164	11.494	694.990	936.590	0.462	15.955	11.494	7.382
2022-09-26 3:15	8169323	8.286	-122.249	11.478	694.173	935.890	0.462	14.667	11.478	7.554
2022-09-26 3:30	8170223	8.281	-121.970	11.464	694.374	936.494	0.462	15.508	11.464	7.374
2022-09-26 3:45	8171123	8.272	-121.448	11.448	694.045	936.426	0.462	14.529	11.448	7.737
2022-09-26 4:00	8172023	8.306	-123.281	11.434	694.523	937.429	0.463	18.943	11.434	7.752
2022-09-26 4:15	8172923	8.284	-122.077	11.418	694.500	937.777	0.463	15.503	11.418	7.700
2022-09-26 4:30	8173823	8.278	-121.779	11.410	694.958	938.585	0.463	15.137	11.410	7.609
2022-09-26 4:45	8174723	8.270	-121.295	11.396	695.576	939.759	0.464	16.150	11.396	7.671
2022-09-26 5:00	8175623	8.298	-122.826	11.382	694.926	939.220	0.464	16.567	11.382	7.548
2022-09-26 5:15	8176523	8.280	-121.837	11.366	694.135	938.536	0.463	16.871	11.366	7.665
2022-09-26 5:30	8177423	8.279	-121.794	11.352	695.226	940.351	0.464	16.751	11.352	7.582
2022-09-26 5:45	8178323	8.258	-120.614	11.332	694.997	940.520	0.464	18.867	11.332	7.617
2022-09-26 6:00	8179223	8.293	-122.523	11.310	693.477	938.996	0.463	29.228	11.310	7.612
2022-09-26 6:15	8180123	8.258	-120.594	11.286	693.249	939.284	0.463	18.970	11.286	7.692
2022-09-26 6:30	8181023	8.267	-121.093	11.263	691.594	937.585	0.463	19.021	11.263	7.719
2022-09-26 6:45	8181923	8.270	-121.245	11.250	692.437	939.052	0.463	19.767	11.250	7.554
2022-09-26 7:00	8182823	8.283	-121.963	11.212	688.168	934.190	0.461	26.631	11.212	7.367
2022-09-26 7:15	8183723	8.256	-120.444	11.195	688.337	934.830	0.461	18.157	11.195	7.476
2022-09-26 7:30	8184623	8.250	-120.130	11.172	688.899	936.143	0.462	18.219	11.172	7.297
2022-09-26 7:45	8185523	8.237	-119.388	11.161	690.203	938.195	0.463	20.051	11.161	7.216
2022-09-26 8:00	8186423	8.250	-120.120	11.154	694.036	943.581	0.466	29.288	11.154	7.070
2022-09-26 8:15	8187323	8.209	-117.877	11.151	696.925	947.563	0.468	19.601	11.151	6.970
2022-09-26 8:30	8188223	8.174	-115.924	11.145	699.361	951.021	0.469	19.863	11.145	6.767
2022-09-26 8:45	8189123	8.145	-114.355	11.134	701.572	954.309	0.471	18.654	11.134	6.581
2022-09-26 9:00	8190023	8.167	-115.564	11.118	702.660	956.197	0.472	19.550	11.118	***6.444***
2022-09-26 9:15	8190923	8.143	-114.222	11.107	702.404	956.105	0.472	20.186	11.107	***6.430***
2022-09-26 9:30	8191823	8.129	-113.456	11.080	702.435	956.830	0.472	17.985	11.080	***6.289***
2022-09-26 9:45	8192723	8.114	-112.603	11.044	699.748	954.060	0.471	20.234	11.044	***6.238***
2022-09-26 10:00	8193623	8.154	-114.825	11.020	696.669	950.465	0.469	19.191	11.020	***6.160***
2022-09-26 10:15	8194523	8.132	-113.602	10.976	692.451	945.789	0.467	21.769	10.976	***6.449***
2022-09-26 10:30	8195423	8.146	-114.317	10.947	688.490	941.098	0.464	21.825	10.947	6.811
2022-09-26 10:45	8196323	8.168	-115.507	10.926	687.656	940.455	0.464	21.364	10.926	6.962

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-26 11:00	8197223	8.191	-116.792	10.902	684.398	936.591	0.462	17.293	10.902	6.845
2022-09-26 11:15	8198123	8.195	-116.961	10.881	684.421	937.149	0.462	19.652	10.881	6.853
2022-09-26 11:30	8199023	8.181	-116.200	10.852	683.561	936.677	0.462	21.301	10.852	6.862
2022-09-26 11:45	8199923	8.152	-114.622	10.828	685.127	939.410	0.463	18.907	10.828	***6.029***
2022-09-26 12:00	8200823	8.168	-115.511	10.821	684.833	939.186	0.463	18.444	10.821	***5.771***
2022-09-26 12:15	8201723	8.154	-114.732	10.795	682.121	936.097	0.461	19.722	10.795	***6.003***
2022-09-26 12:30	8202623	8.147	-114.341	10.788	681.621	935.595	0.461	20.389	10.788	***5.765***
2022-09-26 12:45	8203523	8.136	-113.735	10.775	680.691	934.618	0.461	19.428	10.775	***5.545***
2022-09-26 13:00	8204423	8.170	-115.595	10.771	682.314	936.949	0.462	16.436	10.771	***5.549***
2022-09-26 13:15	8205323	8.149	-114.429	10.779	679.539	932.959	0.460	19.938	10.779	***5.968***
2022-09-26 13:30	8206223	8.144	-114.155	10.801	677.729	929.937	0.458	19.666	10.801	***6.234***
2022-09-26 13:45	8207123	8.143	-114.141	10.817	678.052	929.978	0.458	19.444	10.817	***6.385***
2022-09-26 14:00	8208023	8.212	-117.884	10.863	681.279	933.269	0.460	25.974	10.863	***6.442***
2022-09-26 14:15	8208923	8.202	-117.397	10.929	679.605	929.374	0.458	18.093	10.929	7.500
2022-09-26 14:30	8209823	8.192	-116.904	11.075	682.489	929.779	0.458	18.012	11.075	7.983
2022-09-26 14:45	8210723	8.221	-118.563	11.220	685.973	931.024	0.459	20.435	11.220	7.954
2022-09-26 15:00	8211623	8.240	-119.622	11.255	682.751	925.796	0.457	18.679	11.255	7.502
2022-09-26 15:15	8212523	8.258	-120.604	11.270	684.058	927.204	0.457	19.411	11.270	7.742
2022-09-26 15:30	8213423	8.249	-120.158	11.341	683.968	925.386	0.456	19.079	11.341	7.697
2022-09-26 15:45	8214323	8.233	-119.324	11.429	685.781	925.742	0.457	19.035	11.429	8.051
2022-09-26 16:00	8215223	8.273	-121.539	11.511	688.806	927.854	0.458	17.925	11.511	7.972
2022-09-26 16:15	8216123	8.259	-120.785	11.519	689.092	928.064	0.458	19.841	11.519	8.100
2022-09-26 16:30	8217023	8.173	-116.136	11.769	813.828	1089.032	0.541	26.612	11.769	8.410
2022-09-26 16:45	8217923	8.232	-119.369	11.748	876.823	1173.984	0.585	34.967	11.748	8.539
2022-09-26 17:00	8218823	8.272	-121.427	11.368	894.530	1209.426	0.603	35.418	11.368	8.280
2022-09-26 17:15	8219723	8.270	-121.284	11.314	920.480	1246.244	0.622	36.746	11.314	8.474
2022-09-26 17:30	8220623	8.305	-123.274	11.504	939.147	1265.310	0.632	32.202	11.504	8.901
2022-09-26 17:45	8221523	8.316	-123.940	11.592	948.667	1275.253	0.638	29.394	11.592	9.092
2022-09-26 18:00	8222423	8.332	-124.755	11.459	955.366	1288.653	0.644	37.818	11.459	9.057
2022-09-26 18:15	8223323	8.294	-122.623	11.379	963.692	1302.574	0.651	28.151	11.379	9.016
2022-09-26 18:30	8224223	8.309	-123.467	11.456	977.081	1318.045	0.660	32.348	11.456	9.063
2022-09-26 18:45	8225123	8.319	-124.097	11.622	992.755	1333.487	0.668	46.054	11.622	9.118
2022-09-26 19:00	8226023	8.395	-128.317	11.792	1005.538	1344.791	0.674	59.227	11.792	9.145
2022-09-26 19:15	8226923	8.381	-127.621	11.900	1013.002	1351.040	0.677	54.863	11.900	9.124
2022-09-26 19:30	8227823	8.389	-128.100	11.980	1018.407	1355.500	0.680	63.507	11.980	9.075
2022-09-26 19:45	8228723	8.390	-128.176	12.033	1019.486	1355.117	0.680	62.232	12.033	9.027
2022-09-26 20:00	8229623	8.420	-129.819	12.050	1023.078	1359.278	0.682	75.766	12.050	8.968
2022-09-26 20:15	8230523	8.387	-128.033	12.065	1023.366	1359.159	0.682	65.472	12.065	8.931
2022-09-26 20:30	8231423	8.380	-127.654	12.080	1024.049	1359.550	0.682	68.033	12.080	8.870
2022-09-26 20:45	8232323	8.375	-127.392	12.095	1024.662	1359.858	0.682	64.692	12.095	8.813
2022-09-26 21:00	8233223	8.401	-128.810	12.108	1025.678	1360.758	0.683	70.314	12.108	8.770
2022-09-26 21:15	8234123	8.363	-126.748	12.122	1025.234	1359.664	0.682	60.289	12.122	8.686
2022-09-26 21:30	8235023	8.358	-126.486	12.137	1025.505	1359.500	0.682	64.047	12.137	8.654
2022-09-26 21:45	8235923	8.353	-126.212	12.147	1025.823	1359.590	0.682	56.684	12.147	8.603

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-26 22:00	8236823	8.380	-127.676	12.154	1027.350	1361.377	0.683	79.625	12.154	8.557
2022-09-26 22:15	8237723	8.342	-125.577	12.154	1026.995	1360.906	0.683	61.392	12.154	8.499
2022-09-26 22:30	8238623	8.338	-125.346	12.147	1027.708	1362.086	0.684	63.612	12.147	8.445
2022-09-26 22:45	8239523	8.333	-125.070	12.135	1027.172	1361.804	0.683	57.830	12.135	8.406
2022-09-26 23:00	8240423	8.360	-126.562	12.114	1027.252	1362.632	0.684	59.575	12.114	8.366
2022-09-26 23:15	8241323	8.326	-124.662	12.091	1026.551	1362.478	0.684	59.113	12.091	8.342
2022-09-26 23:30	8242223	8.322	-124.464	12.062	1026.792	1363.811	0.684	59.870	12.062	8.310
2022-09-26 23:45	8243123	8.321	-124.390	12.031	1026.092	1363.958	0.684	54.094	12.031	8.291
2022-09-27 0:00	8244023	8.350	-125.940	11.991	1025.755	1364.898	0.685	68.110	11.991	8.268
2022-09-27 0:15	8244923	8.318	-124.190	11.954	1024.065	1363.921	0.684	59.397	11.954	8.254
2022-09-27 0:30	8245823	8.316	-124.083	11.910	1023.065	1364.112	0.684	56.094	11.910	8.235
2022-09-27 0:45	8246723	8.315	-123.971	11.863	1022.252	1364.663	0.685	51.402	11.863	8.207
2022-09-27 1:00	8247623	8.345	-125.628	11.802	1021.110	1365.272	0.685	52.481	11.802	8.200
2022-09-27 1:15	8248523	8.315	-123.906	11.750	1019.938	1365.529	0.685	47.378	11.750	8.194
2022-09-27 1:30	8249423	8.313	-123.820	11.691	1017.781	1364.695	0.684	47.140	11.691	8.209
2022-09-27 1:45	8250323	8.315	-123.897	11.628	1016.893	1365.709	0.685	45.878	11.628	8.200
2022-09-27 2:00	8251223	8.346	-125.566	11.573	1015.350	1365.572	0.685	53.574	11.573	8.184
2022-09-27 2:15	8252123	8.318	-123.971	11.502	1013.653	1365.774	0.685	46.192	11.502	8.173
2022-09-27 2:30	8253023	8.318	-123.951	11.441	1011.957	1365.612	0.685	46.803	11.441	8.194
2022-09-27 2:45	8253923	8.318	-123.949	11.377	1010.526	1365.941	0.685	47.507	11.377	8.181
2022-09-27 3:00	8254823	8.350	-125.654	11.302	1009.209	1366.803	0.685	50.445	11.302	8.148
2022-09-27 3:15	8255723	8.309	-123.382	11.261	1006.710	1364.867	0.684	49.380	11.261	8.175
2022-09-27 3:30	8256623	8.301	-122.929	11.193	1003.907	1363.468	0.683	42.514	11.193	8.032
2022-09-27 3:45	8257523	8.312	-123.498	11.123	1002.453	1363.981	0.683	45.113	11.123	8.146
2022-09-27 4:00	8258423	8.354	-125.780	11.037	1001.336	1365.501	0.684	85.186	11.037	8.178
2022-09-27 4:15	8259323	8.317	-123.711	10.978	998.755	1364.076	0.683	45.252	10.978	8.164
2022-09-27 4:30	8260223	8.312	-123.422	10.905	997.569	1365.067	0.683	45.194	10.905	8.144
2022-09-27 4:45	8261123	8.319	-123.758	10.835	993.324	1361.745	0.682	45.636	10.835	8.153
2022-09-27 5:00	8262023	8.358	-125.868	10.751	992.625	1363.777	0.683	42.659	10.751	8.162
2022-09-27 5:15	8262923	8.312	-123.303	10.713	991.288	1363.302	0.682	39.211	10.713	8.139
2022-09-27 5:30	8263823	8.317	-123.546	10.650	988.833	1362.172	0.682	38.318	10.650	8.119
2022-09-27 5:45	8264723	8.319	-123.649	10.595	988.006	1363.016	0.682	39.592	10.595	8.124
2022-09-27 6:00	8265623	8.362	-125.995	10.522	990.077	1368.518	0.685	64.322	10.522	8.126
2022-09-27 6:15	8266523	8.334	-124.388	10.470	985.855	1364.562	0.683	40.455	10.470	8.160
2022-09-27 6:30	8267423	8.329	-124.121	10.456	985.061	1363.950	0.682	38.838	10.456	8.063
2022-09-27 6:45	8268323	8.313	-123.262	10.416	983.127	1362.725	0.682	35.671	10.416	7.923
2022-09-27 7:00	8269224	8.349	-125.165	10.360	978.844	1358.786	0.679	68.642	10.360	7.872
2022-09-27 7:15	8270124	8.313	-123.205	10.333	977.949	1358.538	0.679	41.783	10.333	7.671
2022-09-27 7:30	8271024	8.307	-122.874	10.276	977.606	1360.106	0.680	40.932	10.276	7.547
2022-09-27 7:45	8271924	8.307	-122.819	10.203	976.241	1360.835	0.680	41.221	10.203	7.414
2022-09-27 8:00	8272824	8.345	-124.876	10.114	975.605	1363.192	0.681	50.995	10.114	7.253
2022-09-27 8:15	8273724	8.317	-123.281	10.034	971.806	1360.796	0.680	39.087	10.034	7.814
2022-09-27 8:30	8274624	8.318	-123.310	9.977	968.798	1358.649	0.679	38.679	9.977	7.954
2022-09-27 8:45	8275524	8.311	-122.919	9.953	969.033	1359.865	0.679	40.372	9.953	7.944

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-27 9:00	8276424	8.349	-125.000	9.915	970.155	1362.832	0.681	33.298	9.915	7.945
2022-09-27 9:15	8277324	8.334	-124.178	9.882	968.988	1362.376	0.681	34.512	9.882	7.903
2022-09-27 9:30	8278224	8.332	-124.021	9.844	967.176	1361.215	0.680	36.063	9.844	7.801
2022-09-27 9:45	8279124	8.332	-124.033	9.822	964.931	1358.859	0.679	35.823	9.822	7.861
2022-09-27 10:00	8280024	8.374	-126.314	9.783	963.400	1358.121	0.678	42.827	9.783	7.794
2022-09-27 10:15	8280924	8.331	-123.923	9.770	962.132	1356.816	0.677	35.861	9.770	7.930
2022-09-27 10:30	8281824	8.318	-123.222	9.769	961.424	1355.876	0.677	38.189	9.769	8.077
2022-09-27 10:45	8282724	8.306	-122.607	9.779	961.321	1355.349	0.677	37.473	9.779	8.115
2022-09-27 11:00	8283624	8.361	-125.573	9.797	961.970	1355.620	0.677	35.608	9.797	8.105
2022-09-27 11:15	8284524	8.337	-124.311	9.816	961.737	1354.584	0.676	35.042	9.816	8.022
2022-09-27 11:30	8285424	8.334	-124.149	9.852	962.038	1353.712	0.676	34.153	9.852	8.105
2022-09-27 11:45	8286324	8.325	-123.672	9.884	963.165	1354.104	0.676	33.601	9.884	7.964
2022-09-27 12:00	8287224	8.368	-126.045	9.931	965.144	1355.188	0.677	43.424	9.931	7.921
2022-09-27 12:15	8288124	8.344	-124.750	9.956	964.182	1352.938	0.676	35.791	9.956	7.953
2022-09-27 12:30	8289024	8.347	-124.931	9.993	963.986	1351.323	0.675	36.202	9.993	7.978
2022-09-27 12:45	8289924	8.344	-124.767	10.021	965.036	1351.794	0.675	39.122	10.021	8.038
2022-09-27 13:00	8290824	8.374	-126.400	10.065	965.014	1350.146	0.674	31.900	10.065	7.925
2022-09-27 13:15	8291724	8.326	-123.842	10.115	965.590	1349.161	0.674	33.146	10.115	7.595
2022-09-27 13:30	8292624	8.298	-122.335	10.179	966.616	1348.308	0.674	37.238	10.179	7.539
2022-09-27 13:45	8293524	8.287	-121.729	10.217	968.551	1349.639	0.674	37.806	10.217	7.127
2022-09-27 14:00	8294424	8.334	-124.340	10.278	971.964	1352.177	0.676	39.445	10.278	7.227
2022-09-27 14:15	8295324	8.276	-121.174	10.367	973.693	1351.402	0.676	34.518	10.367	7.725
2022-09-27 14:30	8296224	8.278	-121.348	10.478	977.027	1352.059	0.676	33.499	10.478	7.845
2022-09-27 14:45	8297124	8.280	-121.543	10.614	980.746	1352.311	0.676	34.455	10.614	7.914
2022-09-27 15:00	8298024	8.335	-124.617	10.758	986.162	1354.665	0.678	30.787	10.758	7.917
2022-09-27 15:15	8298924	8.312	-123.391	10.826	987.853	1354.552	0.678	34.406	10.826	8.083
2022-09-27 15:30	8299824	8.308	-123.193	10.887	990.940	1356.629	0.679	34.323	10.887	8.347
2022-09-27 15:45	8300724	8.289	-122.175	10.928	993.322	1358.449	0.680	32.120	10.928	8.233
2022-09-27 16:00	8301624	8.365	-126.345	10.945	996.294	1361.900	0.682	37.957	10.945	8.474
2022-09-27 16:15	8302524	8.319	-123.823	10.952	996.475	1361.884	0.682	35.475	10.952	8.394
2022-09-27 16:30	8303424	8.308	-123.239	10.980	997.942	1362.886	0.682	40.055	10.980	8.441
2022-09-27 16:45	8304324	8.317	-123.718	11.044	1000.015	1363.455	0.683	33.845	11.044	8.388
2022-09-27 17:00	8305224	8.364	-126.340	11.094	1001.203	1363.305	0.683	30.143	11.094	8.447
2022-09-27 17:15	8306124	8.331	-124.531	11.135	1001.610	1362.410	0.682	35.644	11.135	8.645
2022-09-27 17:30	8307024	8.338	-124.910	11.125	1001.500	1362.606	0.683	36.619	11.125	8.647
2022-09-27 17:45	8307924	8.322	-124.021	11.120	1001.122	1362.256	0.682	37.317	11.120	8.476
2022-09-27 18:00	8308824	8.358	-126.026	11.155	1002.440	1362.831	0.683	34.379	11.155	8.579
2022-09-27 18:15	8309724	8.323	-124.133	11.142	1001.653	1362.207	0.682	33.427	11.142	8.595
2022-09-27 18:30	8310624	8.324	-124.178	11.154	1001.706	1361.868	0.682	31.336	11.154	8.506
2022-09-27 18:45	8311524	8.322	-124.083	11.177	1002.221	1361.742	0.682	34.548	11.177	8.514
2022-09-27 19:00	8312424	8.343	-125.227	11.207	1003.224	1362.037	0.682	31.711	11.207	8.393
2022-09-27 19:15	8313324	8.310	-123.415	11.217	1003.112	1361.542	0.682	34.933	11.217	8.121
2022-09-27 19:30	8314224	8.298	-122.757	11.223	1003.171	1361.421	0.682	31.444	11.223	8.020
2022-09-27 19:45	8315124	8.288	-122.204	11.234	1002.977	1360.758	0.682	33.883	11.234	7.863

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-27 20:00	8316024	8.320	-123.968	11.247	1004.049	1361.759	0.682	33.935	11.247	7.753
2022-09-27 20:15	8316924	8.277	-121.608	11.238	1002.241	1359.609	0.681	34.062	11.238	7.879
2022-09-27 20:30	8317824	8.284	-122.011	11.256	1001.799	1358.392	0.680	33.479	11.256	7.645
2022-09-27 20:45	8318724	8.279	-121.751	11.267	1001.466	1357.545	0.680	35.880	11.267	7.309
2022-09-27 21:00	8319624	8.305	-123.186	11.267	1002.500	1358.938	0.681	24.666	11.267	7.172
2022-09-27 21:15	8320524	8.270	-121.262	11.257	1001.250	1357.599	0.680	30.897	11.257	7.115
2022-09-27 21:30	8321424	8.271	-121.298	11.253	1000.755	1357.092	0.680	33.171	11.253	7.105
2022-09-27 21:45	8322324	8.253	-120.332	11.264	1000.604	1356.487	0.679	28.450	11.264	6.808
2022-09-27 22:00	8323224	8.285	-122.094	11.272	1002.150	1358.287	0.680	33.612	11.272	6.619
2022-09-27 22:15	8324124	8.254	-120.399	11.271	1000.294	1355.814	0.679	27.353	11.271	6.556
2022-09-27 22:30	8325024	8.311	-123.489	11.225	996.102	1351.755	0.677	31.637	11.225	6.842
2022-09-27 22:45	8325924	8.325	-124.218	11.161	994.348	1351.613	0.677	36.814	11.161	7.591
2022-09-27 23:00	8326824	8.349	-125.527	11.124	991.731	1349.349	0.676	27.689	11.124	7.685
2022-09-27 23:15	8327724	8.320	-123.911	11.095	991.284	1349.744	0.676	30.831	11.095	7.655
2022-09-27 23:30	8328624	8.330	-124.452	11.059	991.741	1351.654	0.677	35.155	11.059	8.004
2022-09-27 23:45	8329524	8.318	-123.761	11.023	992.585	1354.062	0.678	35.185	11.023	7.562
2022-09-28 0:00	8330424	8.369	-126.579	11.004	995.974	1359.366	0.681	33.065	11.004	7.574
2022-09-28 0:15	8331324	8.341	-125.036	10.990	995.437	1359.137	0.681	34.609	10.990	7.584
2022-09-28 0:30	8332224	8.357	-125.904	10.966	995.243	1359.724	0.681	32.555	10.966	7.540
2022-09-28 0:45	8333124	8.352	-125.575	10.929	994.679	1360.258	0.681	36.724	10.929	7.502
2022-09-28 1:00	8334024	8.364	-126.207	10.854	990.659	1357.422	0.679	26.246	10.854	7.345
2022-09-28 1:15	8334924	8.353	-125.606	10.796	989.206	1357.489	0.679	34.406	10.796	7.562
2022-09-28 1:30	8335824	8.352	-125.520	10.740	986.977	1356.422	0.679	35.319	10.740	7.551
2022-09-28 1:45	8336724	8.361	-125.964	10.695	984.989	1355.305	0.678	33.699	10.695	7.467
2022-09-28 2:00	8337624	8.378	-126.925	10.691	984.632	1354.936	0.678	32.674	10.691	7.364
2022-09-28 2:15	8338524	8.326	-124.037	10.630	981.354	1352.594	0.677	36.350	10.630	7.179
2022-09-28 2:30	8339424	8.338	-124.660	10.580	978.165	1349.968	0.675	35.278	10.580	7.351
2022-09-28 2:45	8340324	8.338	-124.691	10.572	973.787	1344.233	0.672	33.641	10.572	7.260
2022-09-28 3:00	8341224	8.351	-125.387	10.566	973.667	1344.254	0.672	29.856	10.566	7.009
2022-09-28 3:15	8342124	8.311	-123.158	10.500	970.254	1341.899	0.671	34.627	10.500	7.200
2022-09-28 3:30	8343024	8.290	-122.030	10.497	970.786	1342.751	0.671	33.840	10.497	6.650
2022-09-28 3:45	8343924	8.270	-120.935	10.476	972.558	1345.920	0.673	31.759	10.476	***6.202***
2022-09-28 4:00	8344824	8.304	-122.762	10.483	975.862	1350.260	0.675	34.649	10.483	***5.857***
2022-09-28 4:15	8345724	8.274	-121.126	10.429	972.299	1347.228	0.673	30.862	10.429	***5.790***
2022-09-28 4:30	8346624	8.264	-120.540	10.358	970.952	1347.912	0.674	33.961	10.358	***5.654***
2022-09-28 4:45	8347524	8.254	-119.956	10.297	970.951	1350.091	0.675	30.630	10.297	***5.494***
2022-09-28 5:00	8348424	8.291	-121.956	10.250	963.599	1341.562	0.670	25.206	10.250	***5.541***
2022-09-28 5:15	8349324	8.257	-120.068	10.186	961.143	1340.421	0.670	32.406	10.186	***5.943***
2022-09-28 5:30	8350224	8.250	-119.669	10.115	961.039	1342.800	0.671	31.873	10.115	***5.813***
2022-09-28 5:45	8351124	8.243	-119.259	10.054	959.800	1343.252	0.671	31.682	10.054	***5.778***
2022-09-28 6:00	8352024	8.292	-121.927	10.020	955.650	1338.667	0.668	32.529	10.020	***5.671***
2022-09-28 6:15	8352924	8.267	-120.542	9.971	950.414	1333.064	0.665	31.472	9.971	***5.563***
2022-09-28 6:30	8353824	8.252	-119.689	9.900	949.436	1334.245	0.666	32.791	9.900	***5.462***
2022-09-28 6:45	8354724	8.239	-119.007	9.895	949.428	1334.421	0.666	33.089	9.895	***5.665***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-28 7:00	8355624	8.276	-121.012	9.896	946.701	1330.549	0.664	28.316	9.896	***5.490***
2022-09-28 7:15	8356524	8.255	-119.832	9.859	944.360	1328.557	0.663	31.477	9.859	***5.663***
2022-09-28 7:30	8357424	8.249	-119.474	9.823	942.428	1327.126	0.662	32.299	9.823	***5.384***
2022-09-28 7:45	8358324	8.240	-118.988	9.803	942.146	1327.467	0.662	33.778	9.803	***5.171***
2022-09-28 8:00	8359224	8.271	-120.671	9.812	942.002	1326.933	0.662	34.882	9.812	***5.104***
2022-09-28 8:15	8360124	8.241	-119.030	9.793	940.007	1324.814	0.661	31.389	9.793	***5.294***
2022-09-28 8:30	8361024	8.235	-118.730	9.798	940.282	1325.023	0.661	35.509	9.798	***5.407***
2022-09-28 8:45	8361924	8.231	-118.506	9.800	940.530	1325.284	0.661	35.375	9.800	***5.494***
2022-09-28 9:00	8362824	8.262	-120.182	9.816	939.449	1323.204	0.660	24.450	9.816	***5.379***
2022-09-28 9:15	8363724	8.229	-118.394	9.810	938.740	1322.403	0.660	30.471	9.810	***5.420***
2022-09-28 9:30	8364624	8.227	-118.277	9.814	938.352	1321.716	0.659	30.561	9.814	***5.495***
2022-09-28 9:45	8365524	8.227	-118.287	9.807	937.828	1321.221	0.659	31.402	9.807	***5.485***
2022-09-28 10:00	8366424	8.269	-120.580	9.816	938.510	1321.866	0.659	36.742	9.816	***5.374***
2022-09-28 10:15	8367324	8.227	-118.277	9.785	935.827	1319.211	0.658	31.931	9.785	***5.475***
2022-09-28 10:30	8368224	8.228	-118.334	9.774	935.069	1318.522	0.658	34.593	9.774	***5.627***
2022-09-28 10:45	8369124	8.236	-118.773	9.769	935.017	1318.613	0.658	35.035	9.769	***5.716***
2022-09-28 11:00	8370024	8.283	-121.331	9.786	934.486	1317.251	0.657	28.108	9.786	***5.873***
2022-09-28 11:15	8370924	8.262	-120.192	9.752	933.396	1316.941	0.657	32.839	9.752	6.636
2022-09-28 11:30	8371824	8.253	-119.677	9.728	932.300	1316.257	0.656	35.107	9.728	6.844
2022-09-28 11:45	8372724	8.250	-119.529	9.730	932.453	1316.401	0.656	34.840	9.730	7.087
2022-09-28 12:00	8373624	8.319	-123.303	9.773	937.221	1321.572	0.659	38.687	9.773	6.838
2022-09-28 12:15	8374524	8.277	-121.009	9.802	938.325	1322.111	0.659	38.608	9.802	6.900
2022-09-28 12:30	8375424	8.278	-121.098	9.844	940.864	1324.186	0.661	38.207	9.844	7.017
2022-09-28 12:45	8376324	8.271	-120.742	9.871	943.341	1326.698	0.662	38.925	9.871	7.020
2022-09-28 13:00	8377224	8.301	-122.371	9.906	947.273	1330.999	0.664	30.003	9.906	7.350
2022-09-28 13:15	8378124	8.295	-122.056	9.931	948.508	1331.842	0.665	37.720	9.931	7.500
2022-09-28 13:30	8379024	8.298	-122.242	9.969	950.458	1333.197	0.665	39.474	9.969	7.643
2022-09-28 13:45	8379924	8.293	-121.989	10.004	952.291	1334.548	0.666	39.643	10.004	7.400
2022-09-28 14:00	8380824	8.349	-125.074	10.071	955.542	1336.690	0.667	37.362	10.071	7.505
2022-09-28 14:15	8381724	8.302	-122.523	10.142	957.013	1336.219	0.667	37.594	10.142	7.622
2022-09-28 14:30	8382624	8.304	-122.678	10.247	959.819	1336.375	0.668	38.241	10.247	7.639
2022-09-28 14:45	8383524	8.291	-121.992	10.353	962.510	1336.377	0.668	37.342	10.353	7.455
2022-09-28 15:00	8384425	8.328	-124.054	10.449	968.135	1340.754	0.670	30.213	10.449	7.457
2022-09-28 15:15	8385325	8.301	-122.662	10.529	972.110	1343.425	0.672	39.297	10.529	7.888
2022-09-28 15:30	8386225	8.282	-121.627	10.595	980.831	1353.121	0.677	39.217	10.595	8.245
2022-09-28 15:45	8387125	8.309	-123.103	10.608	981.351	1353.363	0.677	36.463	10.608	8.665
2022-09-28 16:00	8388025	8.366	-126.288	10.701	983.712	1353.315	0.677	37.794	10.701	8.536
2022-09-28 16:15	8388925	8.331	-124.359	10.731	982.580	1350.693	0.676	37.348	10.731	8.543
2022-09-28 16:30	8389825	8.334	-124.514	10.740	981.930	1349.482	0.675	35.956	10.740	8.560
2022-09-28 16:45	8390725	8.328	-124.233	10.746	982.137	1349.547	0.675	34.656	10.746	8.602
2022-09-28 17:00	8391625	8.360	-126.007	10.795	982.363	1348.115	0.674	29.655	10.795	8.613
2022-09-28 17:15	8392525	8.337	-124.743	10.800	981.019	1346.124	0.673	33.913	10.800	8.775
2022-09-28 17:30	8393425	8.332	-124.431	10.788	980.560	1345.916	0.673	38.230	10.788	8.768
2022-09-28 17:45	8394325	8.330	-124.316	10.784	979.739	1344.933	0.673	34.460	10.784	8.739

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-28 18:00	8395225	8.378	-126.972	10.784	979.210	1344.178	0.672	34.323	10.784	8.640
2022-09-28 18:15	8396125	8.340	-124.884	10.748	977.917	1343.678	0.672	36.846	10.748	8.790
2022-09-28 18:30	8397025	8.334	-124.507	10.737	976.600	1342.267	0.671	36.416	10.737	8.816
2022-09-28 18:45	8397925	8.336	-124.660	10.745	976.893	1342.393	0.671	36.637	10.745	8.702
2022-09-28 19:00	8398825	8.360	-125.980	10.757	977.678	1343.056	0.672	31.233	10.757	8.531
2022-09-28 19:15	8399725	8.328	-124.204	10.745	976.458	1341.804	0.671	33.725	10.745	8.585
2022-09-28 19:30	8400625	8.320	-123.744	10.736	976.260	1341.823	0.671	37.343	10.736	8.527
2022-09-28 19:45	8401525	8.314	-123.448	10.737	976.056	1341.528	0.671	34.883	10.737	8.456
2022-09-28 20:00	8402425	8.345	-125.141	10.755	977.811	1343.292	0.672	31.476	10.755	8.215
2022-09-28 20:15	8403325	8.303	-122.812	10.741	977.098	1342.821	0.672	32.878	10.741	7.932
2022-09-28 20:30	8404225	8.302	-122.766	10.742	976.796	1342.374	0.671	32.977	10.742	7.915
2022-09-28 20:45	8405125	8.295	-122.390	10.739	976.592	1342.185	0.671	34.074	10.739	7.580
2022-09-28 21:00	8406025	8.327	-124.159	10.740	977.598	1343.529	0.672	30.846	10.740	7.576
2022-09-28 21:15	8406925	8.289	-122.051	10.741	977.089	1342.786	0.672	34.701	10.741	7.479
2022-09-28 21:30	8407825	8.261	-120.587	10.839	979.319	1342.411	0.672	32.430	10.839	7.188
2022-09-28 21:45	8408725	8.259	-120.487	10.847	979.330	1342.128	0.671	34.315	10.847	6.904
2022-09-28 22:00	8409625	8.316	-123.563	10.777	975.631	1339.516	0.670	37.171	10.777	7.060
2022-09-28 22:15	8410525	8.294	-122.325	10.727	974.170	1339.276	0.670	41.469	10.727	7.875
2022-09-28 22:30	8411425	8.275	-121.293	10.757	974.740	1339.015	0.670	38.793	10.757	7.777
2022-09-28 22:45	8412325	8.271	-121.093	10.762	975.063	1339.273	0.670	37.159	10.762	7.460
2022-09-28 23:00	8413225	8.305	-122.948	10.771	975.456	1339.506	0.670	29.089	10.771	7.141
2022-09-28 23:15	8414125	8.270	-121.009	10.735	974.112	1338.929	0.670	35.635	10.735	7.293
2022-09-28 23:30	8415025	8.280	-121.555	10.720	973.680	1338.846	0.670	37.576	10.720	7.611
2022-09-28 23:45	8415925	8.281	-121.636	10.716	973.764	1339.109	0.670	40.286	10.716	7.599
2022-09-29 0:00	8416825	8.312	-123.312	10.727	974.971	1340.381	0.670	37.364	10.727	7.340
2022-09-29 0:15	8417725	8.274	-121.264	10.725	974.567	1339.893	0.670	36.736	10.725	7.223
2022-09-29 0:30	8418625	8.263	-120.668	10.732	974.912	1340.120	0.670	33.731	10.732	6.920
2022-09-29 0:45	8419525	8.235	-119.121	10.765	976.016	1340.489	0.670	38.525	10.765	***6.311***
2022-09-29 1:00	8420425	8.267	-120.902	10.800	977.549	1341.346	0.671	29.479	10.800	***6.115***
2022-09-29 1:15	8421325	8.243	-119.600	10.821	979.183	1342.844	0.672	35.856	10.821	***6.302***
2022-09-29 1:30	8422225	8.237	-119.295	10.843	978.156	1340.662	0.671	33.874	10.843	***6.112***
2022-09-29 1:45	8423125	8.230	-118.892	10.873	978.869	1340.592	0.671	33.335	10.873	***5.979***
2022-09-29 2:00	8424025	8.263	-120.723	10.933	981.998	1342.762	0.672	34.665	10.933	***6.190***
2022-09-29 2:15	8424925	8.230	-118.918	10.967	982.088	1341.688	0.671	37.636	10.967	***6.139***
2022-09-29 2:30	8425825	8.223	-118.544	10.994	982.619	1341.478	0.671	30.370	10.994	***6.016***
2022-09-29 2:45	8426725	8.214	-118.101	11.009	982.992	1341.478	0.671	31.272	11.009	***5.773***
2022-09-29 3:00	8427625	8.240	-119.538	11.027	983.416	1341.436	0.671	27.203	11.027	***5.606***
2022-09-29 3:15	8428525	8.212	-117.960	11.018	982.174	1340.028	0.671	30.451	11.018	***5.758***
2022-09-29 3:30	8429425	8.201	-117.395	11.012	981.753	1339.686	0.670	32.419	11.012	***5.571***
2022-09-29 3:45	8430325	8.191	-116.794	11.003	981.282	1339.353	0.670	30.605	11.003	***5.560***
2022-09-29 4:00	8431225	8.226	-118.721	11.006	982.464	1340.855	0.671	35.619	11.006	***5.397***
2022-09-29 4:15	8432125	8.193	-116.925	10.976	980.758	1339.590	0.670	31.111	10.976	***5.216***
2022-09-29 4:30	8433025	8.193	-116.875	10.918	979.086	1339.309	0.670	35.425	10.918	***5.389***
2022-09-29 4:45	8433925	8.206	-117.614	10.901	978.534	1339.157	0.670	34.448	10.901	***5.666***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-29 5:00	8434825	8.252	-120.096	10.900	978.629	1339.332	0.670	30.701	10.900	***5.800***
2022-09-29 5:15	8435725	8.226	-118.711	10.892	977.952	1338.667	0.670	31.411	10.892	***6.021***
2022-09-29 5:30	8436625	8.217	-118.184	10.891	977.880	1338.600	0.670	44.503	10.891	***5.876***
2022-09-29 5:45	8437525	8.211	-117.888	10.890	977.775	1338.512	0.670	37.064	10.890	***5.754***
2022-09-29 6:00	8438425	8.239	-119.426	10.895	978.707	1339.608	0.670	40.314	10.895	***5.629***
2022-09-29 6:15	8439325	8.198	-117.128	10.884	977.966	1338.966	0.670	35.516	10.884	***5.361***
2022-09-29 6:30	8440225	8.192	-116.816	10.881	977.881	1338.961	0.670	33.015	10.881	***5.196***
2022-09-29 6:45	8441125	8.181	-116.224	10.879	978.041	1339.268	0.670	36.485	10.879	***5.056***
2022-09-29 7:00	8442025	8.198	-117.128	10.888	978.792	1339.978	0.670	26.727	10.888	***4.658***
2022-09-29 7:15	8442925	8.159	-115.032	10.889	977.077	1337.573	0.669	29.914	10.889	***4.246***
2022-09-29 7:30	8443825	8.146	-114.324	10.900	977.937	1338.379	0.670	29.368	10.900	***4.063***
2022-09-29 7:45	8444725	8.130	-113.425	10.917	978.504	1338.566	0.670	32.509	10.917	***3.723***
2022-09-29 8:00	8445625	8.168	-115.504	10.934	979.907	1339.886	0.670	45.153	10.934	***3.582***
2022-09-29 8:15	8446525	8.143	-114.188	10.935	978.406	1337.808	0.669	30.134	10.935	***3.917***
2022-09-29 8:30	8447425	8.137	-113.809	10.933	977.984	1337.288	0.669	30.587	10.933	***3.752***
2022-09-29 8:45	8448325	8.137	-113.814	10.931	977.622	1336.846	0.669	34.180	10.931	***3.796***
2022-09-29 9:00	8449225	8.168	-115.528	10.934	978.117	1337.440	0.669	23.777	10.934	***3.882***
2022-09-29 9:15	8450125	8.133	-113.609	10.928	977.193	1336.382	0.669	34.940	10.928	***3.834***
2022-09-29 9:30	8451025	8.125	-113.180	10.921	977.150	1336.572	0.669	24.364	10.921	***3.847***
2022-09-29 9:45	8451925	8.116	-112.674	10.913	977.210	1336.943	0.669	25.025	10.913	***3.806***
2022-09-29 10:00	8452825	8.158	-114.968	10.917	978.090	1337.984	0.669	30.758	10.917	***3.902***
2022-09-29 10:15	8453725	8.138	-113.885	10.905	977.712	1337.892	0.669	27.135	10.905	***4.020***
2022-09-29 10:30	8454625	8.146	-114.291	10.901	977.765	1338.095	0.669	35.996	10.901	***4.190***
2022-09-29 10:45	8455525	8.152	-114.629	10.908	978.125	1338.346	0.670	25.812	10.908	***4.394***
2022-09-29 11:00	8456425	8.189	-116.696	10.924	978.715	1338.609	0.670	20.142	10.924	***4.412***
2022-09-29 11:15	8457325	8.150	-114.560	10.923	978.191	1337.909	0.669	25.665	10.923	***4.757***
2022-09-29 11:30	8458225	8.156	-114.863	10.914	980.256	1341.060	0.671	25.062	10.914	***5.705***
2022-09-29 11:45	8459125	8.172	-115.740	10.916	984.265	1346.483	0.674	26.551	10.916	6.575
2022-09-29 12:00	8460025	8.259	-120.492	10.942	991.396	1355.309	0.678	60.328	10.942	7.071
2022-09-29 12:15	8460925	8.221	-118.461	10.963	993.427	1357.326	0.680	25.220	10.963	6.694
2022-09-29 12:30	8461825	8.225	-118.642	10.974	994.556	1358.479	0.680	27.701	10.974	6.739
2022-09-29 12:45	8462725	8.225	-118.661	10.991	995.196	1358.765	0.680	33.082	10.991	6.585
2022-09-29 13:00	8463625	8.244	-119.722	11.011	993.827	1356.175	0.679	22.240	11.011	***6.210***
2022-09-29 13:15	8464525	8.205	-117.598	11.038	991.954	1352.681	0.677	25.523	11.038	6.547
2022-09-29 13:30	8465425	8.189	-116.756	11.079	991.948	1351.219	0.676	25.710	11.079	***6.434***
2022-09-29 13:45	8466325	8.182	-116.355	11.123	992.644	1350.624	0.676	24.392	11.123	***6.339***
2022-09-29 14:00	8467225	8.250	-120.158	11.201	994.311	1350.149	0.676	29.125	11.201	***6.309***
2022-09-29 14:15	8468125	8.220	-118.484	11.242	994.845	1349.458	0.676	24.168	11.242	6.848
2022-09-29 14:30	8469025	8.232	-119.178	11.298	996.775	1350.113	0.676	23.284	11.298	7.127
2022-09-29 14:45	8469925	8.244	-119.879	11.363	999.453	1351.470	0.677	24.086	11.363	7.708
2022-09-29 15:00	8470825	8.249	-120.208	11.462	1002.583	1352.246	0.678	22.435	11.462	7.685
2022-09-29 15:15	8471725	8.185	-116.723	11.527	1003.428	1351.128	0.677	26.419	11.527	7.632
2022-09-29 15:30	8472625	8.203	-117.693	11.588	1004.786	1350.811	0.677	25.587	11.588	7.061
2022-09-29 15:45	8473525	8.204	-117.807	11.639	1006.382	1351.218	0.677	23.010	11.639	7.056

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-29 16:00	8474425	8.246	-120.118	11.727	1008.416	1350.887	0.677	24.772	11.727	7.233
2022-09-29 16:15	8475325	8.236	-119.576	11.735	1007.827	1349.828	0.677	22.175	11.735	7.613
2022-09-29 16:30	8476225	8.224	-118.964	11.790	1009.293	1349.895	0.677	23.352	11.790	7.565
2022-09-29 16:45	8477125	8.225	-119.016	11.787	1009.886	1350.794	0.677	23.255	11.787	7.512
2022-09-29 17:00	8478025	8.282	-122.135	11.815	1010.081	1350.081	0.677	20.234	11.815	7.924
2022-09-29 17:15	8478925	8.284	-122.223	11.761	1008.001	1349.169	0.676	22.820	11.761	8.527
2022-09-29 17:30	8479825	8.307	-123.432	11.659	1002.281	1345.002	0.674	23.867	11.659	9.076
2022-09-29 17:45	8480725	8.330	-124.729	11.673	1001.816	1343.894	0.673	23.552	11.673	9.284
2022-09-29 18:00	8481625	8.360	-126.407	11.764	1007.822	1348.827	0.676	28.562	11.764	9.173
2022-09-29 18:15	8482525	8.308	-123.599	11.852	1012.203	1351.641	0.678	24.909	11.852	9.038
2022-09-29 18:30	8483425	8.304	-123.360	11.804	1010.400	1350.872	0.677	27.516	11.804	9.102
2022-09-29 18:45	8484325	8.316	-124.033	11.858	1013.541	1353.211	0.679	27.355	11.858	9.190
2022-09-29 19:00	8485225	8.326	-124.602	11.958	1018.380	1356.229	0.680	21.170	11.958	8.847
2022-09-29 19:15	8486125	8.295	-122.972	12.015	1020.600	1357.189	0.681	39.262	12.015	8.766
2022-09-29 19:30	8487025	8.282	-122.228	12.053	1022.009	1357.775	0.681	43.608	12.053	8.225
2022-09-29 19:45	8487925	8.260	-121.050	12.097	1023.374	1358.070	0.681	48.438	12.097	7.955
2022-09-29 20:00	8488825	8.292	-122.840	12.152	1024.702	1357.926	0.681	24.412	12.152	7.840
2022-09-29 20:15	8489725	8.259	-121.026	12.156	1023.663	1356.429	0.681	54.182	12.156	7.877
2022-09-29 20:30	8490625	8.245	-120.285	12.183	1024.076	1356.053	0.680	36.694	12.183	7.523
2022-09-29 20:45	8491525	8.236	-119.808	12.201	1023.684	1354.908	0.680	39.591	12.201	7.555
2022-09-29 21:00	8492425	8.266	-121.460	12.208	1021.497	1351.758	0.678	19.127	12.208	7.473
2022-09-29 21:15	8493325	8.247	-120.375	12.172	1018.384	1348.868	0.677	59.812	12.172	7.924
2022-09-29 21:30	8494225	8.239	-119.915	12.177	1017.912	1348.088	0.676	65.277	12.177	7.386
2022-09-29 21:45	8495125	8.215	-118.625	12.187	1018.274	1348.205	0.676	59.308	12.187	6.890
2022-09-29 22:00	8496025	8.234	-119.698	12.200	1018.900	1348.599	0.677	26.974	12.200	6.973
2022-09-29 22:15	8496925	8.205	-118.074	12.177	1016.507	1346.233	0.675	27.049	12.177	6.888
2022-09-29 22:30	8497825	8.200	-117.788	12.176	1015.411	1344.795	0.675	27.939	12.176	6.642
2022-09-29 22:45	8498725	8.185	-116.975	12.129	1013.978	1344.514	0.674	24.167	12.129	6.724
2022-09-29 23:00	8499625	8.225	-119.126	12.123	1011.953	1342.038	0.673	20.469	12.123	6.717
2022-09-29 23:15	8500525	8.202	-117.841	12.052	1006.618	1337.345	0.670	47.220	12.052	7.088
2022-09-29 23:30	8501425	8.214	-118.499	12.028	1005.527	1336.710	0.670	30.999	12.028	7.147
2022-09-29 23:45	8502325	8.194	-117.373	11.959	1002.141	1334.565	0.669	35.192	11.959	7.135
2022-09-30 0:00	8503225	8.215	-118.506	11.901	996.467	1328.974	0.666	28.954	11.901	***6.154***
2022-09-30 0:15	8504125	8.184	-116.768	11.804	992.555	1327.036	0.665	35.210	11.804	6.728
2022-09-30 0:30	8505025	8.185	-116.820	11.747	991.154	1327.084	0.665	57.467	11.747	***6.341***
2022-09-30 0:45	8505925	8.168	-115.864	11.702	989.347	1326.198	0.664	50.101	11.702	***5.452***
2022-09-30 1:00	8506825	8.181	-116.580	11.702	993.956	1332.349	0.667	20.895	11.702	***5.275***
2022-09-30 1:15	8507725	8.150	-114.856	11.665	989.802	1328.054	0.665	40.476	11.665	***5.372***
2022-09-30 1:30	8508625	8.144	-114.472	11.623	987.714	1326.675	0.664	48.506	11.623	***5.347***
2022-09-30 1:45	8509525	8.139	-114.245	11.646	991.984	1331.619	0.667	79.835	11.646	***5.553***
2022-09-30 2:00	8510425	8.185	-116.735	11.647	983.825	1320.649	0.661	28.093	11.647	***5.539***
2022-09-30 2:15	8511325	8.158	-115.249	11.607	984.347	1322.716	0.662	44.985	11.607	***5.732***
2022-09-30 2:30	8512225	8.153	-114.973	11.568	984.653	1324.447	0.663	26.726	11.568	***5.619***
2022-09-30 2:45	8513125	8.156	-115.120	11.532	981.892	1321.958	0.662	52.872	11.532	***5.556***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-30 3:00	8514025	8.193	-117.145	11.495	970.494	1307.839	0.654	19.151	11.495	***5.755***
2022-09-30 3:15	8514926	8.158	-115.178	11.479	965.212	1301.268	0.651	39.648	11.479	***5.933***
2022-09-30 3:30	8515826	8.153	-114.913	11.460	962.536	1298.288	0.649	59.342	11.460	***5.526***
2022-09-30 3:45	8516726	8.148	-114.660	11.437	960.760	1296.656	0.648	64.225	11.437	***5.505***
2022-09-30 4:00	8517626	8.182	-116.501	11.393	953.613	1288.472	0.644	25.847	11.393	***5.458***
2022-09-30 4:15	8518526	8.144	-114.377	11.365	949.731	1284.160	0.642	72.291	11.365	***5.267***
2022-09-30 4:30	8519426	8.136	-113.955	11.339	947.613	1282.146	0.641	46.445	11.339	***5.067***
2022-09-30 4:45	8520326	8.130	-113.606	11.311	946.459	1281.532	0.640	43.713	11.311	***4.819***
2022-09-30 5:00	8521226	8.154	-114.915	11.295	944.919	1279.955	0.640	19.879	11.295	***4.676***
2022-09-30 5:15	8522126	8.122	-113.132	11.265	941.694	1276.595	0.638	107.622	11.265	***4.589***
2022-09-30 5:30	8523026	8.114	-112.712	11.217	938.906	1274.394	0.637	26.757	11.217	***4.509***
2022-09-30 5:45	8523926	8.105	-112.190	11.172	936.748	1272.953	0.636	69.666	11.172	***4.321***
2022-09-30 6:00	8524826	8.141	-114.126	11.128	934.202	1270.950	0.635	26.424	11.128	***4.402***
2022-09-30 6:15	8525726	8.116	-112.746	11.058	928.245	1265.148	0.632	43.766	11.058	***4.647***
2022-09-30 6:30	8526626	8.111	-112.474	11.038	927.010	1264.122	0.631	37.713	11.038	***4.404***
2022-09-30 6:45	8527526	8.106	-112.169	11.026	927.181	1264.733	0.631	51.429	11.026	***4.481***
2022-09-30 7:00	8528426	8.138	-113.950	11.033	927.770	1265.323	0.632	18.798	11.033	***4.412***
2022-09-30 7:15	8529326	8.108	-112.250	11.008	922.810	1259.367	0.629	55.774	11.008	***4.208***
2022-09-30 7:30	8530226	8.099	-111.775	11.000	924.221	1261.550	0.630	57.680	11.000	***4.405***
2022-09-30 7:45	8531126	8.095	-111.544	10.985	924.995	1263.099	0.630	61.753	10.985	***4.130***
2022-09-30 8:00	8532026	8.133	-113.652	10.975	924.366	1262.591	0.630	24.548	10.975	***4.095***
2022-09-30 8:15	8532926	8.107	-112.190	10.934	920.306	1258.373	0.628	40.745	10.934	***4.266***
2022-09-30 8:30	8533826	8.100	-111.828	10.921	919.507	1257.735	0.628	43.474	10.921	***4.048***
2022-09-30 8:45	8534726	8.102	-111.918	10.900	917.945	1256.287	0.627	58.702	10.900	***4.382***
2022-09-30 9:00	8535626	8.137	-113.807	10.894	918.414	1257.103	0.627	17.953	10.894	***4.327***
2022-09-30 9:15	8536526	8.112	-112.443	10.861	915.739	1254.545	0.626	28.322	10.861	***4.384***
2022-09-30 9:30	8537426	8.107	-112.159	10.854	915.236	1254.065	0.626	46.550	10.854	***4.431***
2022-09-30 9:45	8538326	8.102	-111.899	10.852	917.337	1257.015	0.627	37.731	10.852	***5.119***
2022-09-30 10:00	8539226	8.169	-115.576	10.875	920.474	1260.572	0.629	23.781	10.875	***5.485***
2022-09-30 10:15	8540126	8.153	-114.691	10.888	921.979	1262.173	0.630	46.496	10.888	***5.592***
2022-09-30 10:30	8541026	8.159	-115.044	10.917	923.924	1263.881	0.631	43.391	10.917	***5.971***
2022-09-30 10:45	8541926	8.159	-115.027	10.952	926.971	1266.890	0.632	37.652	10.952	***6.328***
2022-09-30 11:00	8542826	8.199	-117.273	11.002	932.409	1272.685	0.635	18.767	11.002	***6.487***
2022-09-30 11:15	8543726	8.189	-116.723	11.022	932.805	1272.541	0.635	29.586	11.022	6.520
2022-09-30 11:30	8544626	8.181	-116.296	11.037	933.903	1273.559	0.636	20.679	11.037	***6.492***
2022-09-30 11:45	8545526	8.176	-116.036	11.043	934.734	1274.497	0.636	24.921	11.043	***6.365***
2022-09-30 12:00	8546426	8.238	-119.390	11.057	937.028	1277.133	0.638	25.741	11.057	6.573
2022-09-30 12:15	8547326	8.195	-117.075	11.058	936.480	1276.356	0.637	22.981	11.058	6.691
2022-09-30 12:30	8548226	8.192	-116.911	11.088	938.362	1277.935	0.638	22.574	11.088	6.693
2022-09-30 12:45	8549126	8.187	-116.653	11.122	941.125	1280.557	0.640	23.123	11.122	6.888
2022-09-30 13:00	8550026	8.226	-118.806	11.165	947.652	1287.993	0.644	20.297	11.165	6.952
2022-09-30 13:15	8550926	8.211	-118.022	11.210	949.117	1288.486	0.644	22.998	11.210	7.193
2022-09-30 13:30	8551826	8.202	-117.514	11.264	952.562	1291.360	0.645	23.459	11.264	7.541
2022-09-30 13:45	8552726	8.205	-117.724	11.305	956.731	1295.636	0.648	23.199	11.305	7.377

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-09-30 14:00	8553626	8.258	-120.647	11.377	963.539	1302.432	0.651	40.456	11.377	7.434
2022-09-30 14:15	8554526	8.234	-119.374	11.433	966.380	1304.396	0.653	24.723	11.433	7.752
2022-09-30 14:30	8555426	8.234	-119.367	11.487	968.769	1305.795	0.653	26.715	11.487	7.767
2022-09-30 14:45	8556326	8.233	-119.359	11.529	969.806	1305.791	0.653	26.936	11.529	7.789
2022-09-30 15:00	8557226	8.270	-121.391	11.573	972.988	1308.580	0.655	21.369	11.573	7.979
2022-09-30 15:15	8558126	8.265	-121.117	11.603	974.311	1309.345	0.655	21.890	11.603	8.442
2022-09-30 15:30	8559026	8.264	-121.107	11.652	978.093	1312.794	0.657	22.405	11.652	8.522
2022-09-30 15:45	8559926	8.266	-121.219	11.681	982.250	1317.397	0.660	22.698	11.681	8.777
2022-09-30 16:00	8560826	8.326	-124.505	11.705	989.271	1325.997	0.664	36.534	11.705	8.920
2022-09-30 16:15	8561726	8.285	-122.266	11.734	990.367	1326.466	0.664	23.957	11.734	9.024
2022-09-30 16:30	8562626	8.287	-122.371	11.750	992.480	1328.737	0.666	22.696	11.750	8.998
2022-09-30 16:45	8563526	8.286	-122.337	11.771	992.791	1328.469	0.666	22.025	11.771	9.120
2022-09-30 17:00	8564426	8.328	-124.700	11.834	1004.722	1342.278	0.673	23.350	11.834	9.364
2022-09-30 17:15	8565326	8.281	-122.168	11.943	1006.288	1340.609	0.672	29.692	11.943	8.786
2022-09-30 17:30	8566226	8.274	-121.794	12.030	1012.745	1346.237	0.675	33.314	12.030	8.650
2022-09-30 17:45	8567126	8.234	-119.567	11.970	1017.618	1354.787	0.680	27.154	11.970	8.182
2022-09-30 18:00	8568026	8.299	-123.138	11.885	1010.724	1348.528	0.676	33.720	11.885	8.187
2022-09-30 18:15	8568926	8.263	-121.136	11.847	1013.330	1353.304	0.679	26.679	11.847	8.258
2022-09-30 18:30	8569826	8.279	-122.011	11.871	1015.233	1355.039	0.680	25.637	11.871	8.332
2022-09-30 18:45	8570726	8.294	-122.831	11.923	1016.989	1355.588	0.680	26.300	11.923	8.459
2022-09-30 19:00	8571626	8.324	-124.512	12.006	1004.804	1336.518	0.670	28.525	12.006	8.461
2022-09-30 19:15	8572526	8.299	-123.155	12.003	1006.343	1338.656	0.671	25.137	12.003	8.481
2022-09-30 19:30	8573426	8.301	-123.274	11.953	1003.644	1336.773	0.670	24.206	11.953	8.482
2022-09-30 19:45	8574326	8.297	-123.003	11.840	1008.573	1347.205	0.675	30.606	11.840	8.450
2022-09-30 20:00	8575226	8.324	-124.404	11.692	1010.762	1355.250	0.679	27.090	11.692	8.378
2022-09-30 20:15	8576126	8.283	-122.108	11.560	1010.824	1359.925	0.682	26.663	11.560	8.332
2022-09-30 20:30	8577026	8.279	-121.799	11.422	1012.193	1366.608	0.685	25.773	11.422	8.275
2022-09-30 20:45	8577926	8.275	-121.555	11.308	1016.464	1376.413	0.690	25.697	11.308	8.291
2022-09-30 21:00	8578826	8.299	-122.836	11.251	1014.938	1376.401	0.690	32.829	11.251	8.263
2022-09-30 21:15	8579726	8.267	-121.057	11.236	1012.666	1373.831	0.689	25.163	11.236	8.215
2022-09-30 21:30	8580626	8.266	-121.026	11.238	1011.676	1372.411	0.688	25.550	11.238	8.210
2022-09-30 21:45	8581526	8.271	-121.298	11.246	1012.340	1373.031	0.688	26.041	11.246	8.241
2022-09-30 22:00	8582426	8.323	-124.173	11.262	1016.664	1378.328	0.691	37.449	11.262	8.262
2022-09-30 22:15	8583326	8.311	-123.491	11.297	1012.444	1371.373	0.687	35.081	11.297	8.416
2022-09-30 22:30	8584226	8.326	-124.328	11.319	1017.235	1377.059	0.690	37.989	11.319	8.429
2022-09-30 22:45	8585126	8.340	-125.110	11.343	1022.377	1383.188	0.694	41.024	11.343	8.444
2022-09-30 23:00	8586026	8.388	-127.771	11.369	1026.521	1387.845	0.696	46.834	11.369	8.475
2022-09-30 23:15	8586926	8.363	-126.429	11.385	1027.372	1388.412	0.696	48.341	11.385	8.475
2022-09-30 23:30	8587826	8.373	-126.963	11.406	1025.719	1385.449	0.695	48.953	11.406	8.470
2022-09-30 23:45	8588726	8.374	-127.034	11.423	1023.346	1381.629	0.693	52.660	11.423	8.372
2022-10-01 0:00	8589626	8.405	-128.758	11.441	1020.967	1377.767	0.691	68.840	11.441	8.325
2022-10-01 0:15	8590526	8.384	-127.590	11.448	1021.299	1377.981	0.691	58.896	11.448	8.302
2022-10-01 0:30	8591426	8.378	-127.251	11.458	1015.598	1369.926	0.687	57.776	11.458	8.159
2022-10-01 0:45	8592326	8.364	-126.519	11.456	1016.073	1370.662	0.687	58.264	11.456	8.081

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-01 1:00	8593226	8.397	-128.326	11.454	1010.705	1363.463	0.683	55.715	11.454	7.737
2022-10-01 1:15	8594126	8.355	-126.021	11.454	1007.260	1358.814	0.681	59.435	11.454	7.661
2022-10-01 1:30	8595026	8.357	-126.116	11.450	1002.049	1351.949	0.677	59.960	11.450	7.599
2022-10-01 1:45	8595926	8.357	-126.073	11.421	999.638	1349.688	0.676	62.664	11.421	7.425
2022-10-01 2:00	8596826	8.402	-128.565	11.379	1004.360	1357.528	0.680	72.496	11.379	7.551
2022-10-01 2:15	8597726	8.380	-127.318	11.347	1005.817	1360.632	0.682	65.996	11.347	7.863
2022-10-01 2:30	8598626	8.382	-127.406	11.317	1010.825	1368.461	0.686	68.419	11.317	7.829
2022-10-01 2:45	8599526	8.389	-127.804	11.292	1008.950	1366.819	0.685	68.649	11.292	7.856
2022-10-01 3:00	8600426	8.415	-129.173	11.258	1005.378	1363.173	0.683	68.088	11.258	7.866
2022-10-01 3:15	8601326	8.381	-127.316	11.238	1002.460	1359.917	0.681	70.184	11.238	7.713
2022-10-01 3:30	8602226	8.375	-126.975	11.200	997.225	1354.147	0.678	70.588	11.200	7.453
2022-10-01 3:45	8603126	8.364	-126.350	11.191	996.765	1353.829	0.678	65.304	11.191	7.326
2022-10-01 4:00	8604026	8.386	-127.583	11.169	989.100	1344.200	0.673	75.190	11.169	7.184
2022-10-01 4:15	8604926	8.335	-124.776	11.114	991.389	1349.240	0.676	69.020	11.114	7.053
2022-10-01 4:30	8605826	8.381	-127.280	11.089	991.363	1350.082	0.676	64.053	11.089	7.241
2022-10-01 4:45	8606726	8.376	-126.946	11.047	988.589	1347.764	0.675	69.692	11.047	7.187
2022-10-01 5:00	8607626	8.397	-128.071	10.978	985.694	1346.242	0.674	66.867	10.978	7.221
2022-10-01 5:15	8608526	8.361	-126.107	10.966	985.196	1345.976	0.674	65.568	10.966	7.051
2022-10-01 5:30	8609426	8.355	-125.732	10.879	989.881	1355.455	0.678	68.293	10.879	7.261
2022-10-01 5:45	8610326	8.364	-126.212	10.846	996.989	1366.382	0.684	67.447	10.846	7.390
2022-10-01 6:00	8611226	8.409	-128.667	10.780	998.970	1371.450	0.687	86.750	10.780	7.466
2022-10-01 6:15	8612126	8.377	-126.889	10.750	997.474	1370.494	0.686	68.041	10.750	7.149
2022-10-01 6:30	8613026	8.383	-127.175	10.708	998.565	1373.514	0.688	66.807	10.708	7.289
2022-10-01 6:45	8613926	8.383	-127.211	10.684	998.388	1374.123	0.688	67.284	10.684	7.204
2022-10-01 7:00	8614826	8.399	-128.064	10.645	996.950	1373.562	0.688	60.993	10.645	6.953
2022-10-01 7:15	8615726	8.375	-126.729	10.611	997.364	1375.365	0.688	66.073	10.611	7.169
2022-10-01 7:30	8616626	8.385	-127.213	10.552	995.069	1374.324	0.688	65.039	10.552	7.035
2022-10-01 7:45	8617526	8.379	-126.886	10.493	993.767	1374.681	0.688	66.569	10.493	7.352
2022-10-01 8:00	8618426	8.412	-128.624	10.411	992.164	1375.417	0.688	73.589	10.411	7.365
2022-10-01 8:15	8619326	8.391	-127.497	10.369	993.272	1378.490	0.690	65.045	10.369	6.947
2022-10-01 8:30	8620226	8.406	-128.291	10.305	995.238	1383.561	0.692	64.774	10.305	6.995
2022-10-01 8:45	8621126	8.390	-127.363	10.263	994.589	1384.212	0.693	64.975	10.263	7.043
2022-10-01 9:00	8622026	8.391	-127.411	10.222	992.803	1383.248	0.692	61.396	10.222	6.794
2022-10-01 9:15	8622926	8.396	-127.685	10.195	994.208	1386.200	0.693	65.304	10.195	7.486
2022-10-01 9:30	8623826	8.387	-127.201	10.168	993.398	1386.048	0.693	64.606	10.168	7.360
2022-10-01 9:45	8624726	8.375	-126.491	10.147	993.373	1386.795	0.694	63.345	10.147	7.100
2022-10-01 10:00	8625626	8.415	-128.713	10.128	992.176	1385.833	0.693	70.792	10.128	7.094
2022-10-01 10:15	8626526	8.383	-126.917	10.117	991.174	1384.850	0.693	63.520	10.117	7.127
2022-10-01 10:30	8627426	8.401	-127.902	10.107	989.929	1383.450	0.692	64.917	10.107	7.167
2022-10-01 10:45	8628326	8.392	-127.449	10.113	988.841	1381.726	0.691	62.932	10.113	7.407
2022-10-01 11:00	8629226	8.406	-128.188	10.134	988.443	1380.391	0.690	60.330	10.134	7.122
2022-10-01 11:15	8630126	8.365	-125.947	10.153	987.844	1378.873	0.690	97.501	10.153	7.030
2022-10-01 11:30	8631026	8.351	-125.227	10.169	988.225	1378.800	0.690	60.066	10.169	6.779
2022-10-01 11:45	8631926	8.339	-124.578	10.191	988.711	1378.669	0.690	60.370	10.191	***6.365***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-01 12:00	8632826	8.372	-126.383	10.221	989.697	1378.939	0.690	59.231	10.221	***6.069***
2022-10-01 12:15	8633726	8.349	-125.129	10.243	989.299	1377.593	0.689	58.429	10.243	***6.346***
2022-10-01 12:30	8634626	8.334	-124.331	10.261	989.818	1377.653	0.689	59.852	10.261	***5.944***
2022-10-01 12:45	8635526	8.334	-124.354	10.278	990.224	1377.601	0.689	57.882	10.278	***6.002***
2022-10-01 13:00	8636426	8.374	-126.541	10.298	990.377	1377.056	0.689	55.560	10.298	***6.307***
2022-10-01 13:15	8637326	8.354	-125.458	10.329	987.916	1372.518	0.687	58.999	10.329	6.710
2022-10-01 13:30	8638226	8.354	-125.437	10.355	992.861	1378.419	0.690	59.456	10.355	6.655
2022-10-01 13:45	8639126	8.362	-125.930	10.398	992.828	1376.821	0.689	59.618	10.398	6.784
2022-10-01 14:00	8640026	8.415	-128.820	10.481	999.564	1383.104	0.692	65.670	10.481	6.949
2022-10-01 14:15	8640926	8.378	-126.872	10.536	1000.800	1382.805	0.692	59.123	10.536	7.281
2022-10-01 14:30	8641826	8.380	-127.001	10.629	1004.516	1384.571	0.693	62.681	10.629	7.173
2022-10-01 14:45	8642726	8.391	-127.609	10.687	1008.584	1388.032	0.695	62.603	10.687	7.784
2022-10-01 15:00	8643626	8.429	-129.740	10.722	1013.349	1393.318	0.698	56.091	10.722	7.972
2022-10-01 15:15	8644527	8.419	-129.163	10.750	1013.197	1392.088	0.697	61.318	10.750	8.113
2022-10-01 15:30	8645427	8.425	-129.504	10.747	1012.912	1391.823	0.697	66.635	10.747	8.427
2022-10-01 15:45	8646327	8.438	-130.205	10.745	1012.579	1391.424	0.697	62.866	10.745	8.724
2022-10-01 16:00	8647227	8.472	-132.077	10.755	1012.347	1390.730	0.697	71.446	10.755	8.714
2022-10-01 16:15	8648127	8.440	-130.355	10.733	1010.796	1389.424	0.696	66.954	10.733	8.843
2022-10-01 16:30	8649027	8.440	-130.329	10.731	1010.262	1388.731	0.696	65.309	10.731	8.863
2022-10-01 16:45	8649927	8.435	-130.048	10.724	1009.620	1388.129	0.695	66.379	10.724	8.926
2022-10-01 17:00	8650827	8.470	-131.948	10.734	1010.033	1388.313	0.695	57.513	10.734	8.801
2022-10-01 17:15	8651727	8.438	-130.241	10.744	1010.075	1388.006	0.695	65.058	10.744	8.762
2022-10-01 17:30	8652627	8.434	-130.005	10.752	1010.652	1388.520	0.696	63.536	10.752	8.832
2022-10-01 17:45	8653527	8.429	-129.762	10.778	1011.720	1389.031	0.696	61.127	10.778	8.669
2022-10-01 18:00	8654427	8.461	-131.524	10.833	1015.237	1391.858	0.697	71.233	10.833	8.702
2022-10-01 18:15	8655327	8.423	-129.478	10.855	1015.311	1391.167	0.697	65.532	10.855	8.537
2022-10-01 18:30	8656227	8.416	-129.070	10.867	1016.097	1391.791	0.697	77.158	10.867	8.454
2022-10-01 18:45	8657127	8.414	-128.984	10.881	1016.857	1392.323	0.698	77.425	10.881	8.383
2022-10-01 19:00	8658027	8.437	-130.258	10.883	1018.128	1394.017	0.699	55.697	10.883	8.388
2022-10-01 19:15	8658927	8.409	-128.696	10.884	1018.108	1393.946	0.699	63.993	10.884	8.138
2022-10-01 19:30	8659827	8.386	-127.463	10.915	1018.340	1393.131	0.698	62.917	10.915	7.888
2022-10-01 19:45	8660727	8.374	-126.872	11.058	1021.380	1392.070	0.698	59.215	11.058	7.786
2022-10-01 20:00	8661627	8.419	-129.426	11.297	1029.974	1395.127	0.700	63.922	11.297	7.855
2022-10-01 20:15	8662527	8.394	-128.095	11.383	1031.542	1394.118	0.699	63.541	11.383	7.632
2022-10-01 20:30	8663427	8.390	-127.888	11.438	1033.586	1394.906	0.700	63.632	11.438	7.421
2022-10-01 20:45	8664327	8.369	-126.798	11.468	1034.953	1395.700	0.700	65.352	11.468	7.232
2022-10-01 21:00	8665227	8.395	-128.231	11.508	1035.994	1395.655	0.700	54.989	11.508	6.987
2022-10-01 21:15	8666127	8.362	-126.431	11.548	1036.129	1394.383	0.700	60.170	11.548	7.250
2022-10-01 21:30	8667027	8.356	-126.143	11.620	1038.345	1394.810	0.700	57.790	11.620	7.200
2022-10-01 21:45	8667927	8.349	-125.768	11.658	1039.311	1394.749	0.700	56.066	11.658	6.783
2022-10-01 22:00	8668827	8.371	-126.953	11.684	1037.765	1391.720	0.698	58.077	11.684	6.629
2022-10-01 22:15	8669727	8.344	-125.480	11.681	1036.052	1389.524	0.697	57.337	11.681	6.501
2022-10-01 22:30	8670627	8.329	-124.693	11.668	1034.247	1387.567	0.696	61.388	11.668	***6.346***
2022-10-01 22:45	8671527	8.322	-124.295	11.652	1034.011	1387.848	0.696	64.960	11.652	***6.213***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-01 23:00	8672427	8.353	-125.949	11.647	1031.924	1385.196	0.695	51.674	11.647	***6.003***
2022-10-01 23:15	8673327	8.328	-124.593	11.631	1030.209	1383.460	0.694	60.635	11.631	***6.268***
2022-10-01 23:30	8674227	8.324	-124.345	11.598	1028.595	1382.496	0.694	59.472	11.598	***6.011***
2022-10-01 23:45	8675127	8.336	-125.010	11.558	1025.515	1379.771	0.692	59.693	11.558	***6.373***
2022-10-02 0:00	8676027	8.393	-128.098	11.492	1021.401	1376.552	0.690	62.082	11.492	***6.447***
2022-10-02 0:15	8676927	8.377	-127.223	11.437	1020.806	1377.689	0.691	62.772	11.437	6.714
2022-10-02 0:30	8677827	8.372	-126.877	11.335	1012.522	1370.136	0.687	63.688	11.335	6.870
2022-10-02 0:45	8678727	8.369	-126.708	11.280	1011.673	1370.938	0.687	63.149	11.280	6.764
2022-10-02 1:00	8679627	8.392	-127.933	11.256	1010.774	1370.566	0.687	52.807	11.256	6.756
2022-10-02 1:15	8680527	8.360	-126.183	11.247	1010.468	1370.460	0.687	59.820	11.247	6.586
2022-10-02 1:30	8681427	8.352	-125.725	11.226	1009.446	1369.830	0.686	59.049	11.226	***6.193***
2022-10-02 1:45	8682327	8.335	-124.805	11.191	1008.618	1369.958	0.686	62.707	11.191	***5.508***
2022-10-02 2:00	8683227	8.350	-125.589	11.171	1007.747	1369.468	0.686	56.924	11.171	***5.172***
2022-10-02 2:15	8684127	8.324	-124.173	11.119	1004.585	1367.016	0.685	58.268	11.119	***5.288***
2022-10-02 2:30	8685027	8.315	-123.646	11.030	998.657	1362.086	0.682	60.805	11.030	***4.811***
2022-10-02 2:45	8685927	8.309	-123.246	10.964	996.379	1361.340	0.682	57.508	10.964	***5.057***
2022-10-02 3:00	8686827	8.330	-124.409	10.929	995.540	1361.430	0.682	52.057	10.929	***4.756***
2022-10-02 3:15	8687727	8.297	-122.552	10.879	992.971	1359.712	0.681	61.564	10.879	***4.744***
2022-10-02 3:30	8688627	8.284	-121.865	10.867	992.932	1360.079	0.681	59.603	10.867	***4.770***
2022-10-02 3:45	8689527	8.281	-121.686	10.829	991.104	1358.932	0.680	57.899	10.829	***4.752***
2022-10-02 4:00	8690427	8.311	-123.298	10.837	995.841	1365.111	0.683	50.857	10.837	***4.575***
2022-10-02 4:15	8691327	8.276	-121.357	10.776	991.422	1361.242	0.681	56.023	10.776	***4.546***
2022-10-02 4:30	8692227	8.265	-120.740	10.731	987.607	1357.624	0.679	59.630	10.731	***4.355***
2022-10-02 4:45	8693127	8.260	-120.475	10.701	988.994	1360.587	0.681	65.425	10.701	***4.179***
2022-10-02 5:00	8694027	8.294	-122.306	10.673	990.420	1363.562	0.682	43.196	10.673	***4.119***
2022-10-02 5:15	8694927	8.263	-120.575	10.616	985.188	1358.370	0.680	56.727	10.616	***4.398***
2022-10-02 5:30	8695827	8.256	-120.187	10.533	979.172	1353.062	0.677	60.980	10.533	***4.395***
2022-10-02 5:45	8696727	8.258	-120.289	10.500	978.287	1352.984	0.677	56.134	10.500	***4.442***
2022-10-02 6:00	8697627	8.303	-122.685	10.448	976.109	1351.859	0.676	46.708	10.448	***4.708***
2022-10-02 6:15	8698527	8.297	-122.368	10.365	969.834	1346.096	0.673	45.848	10.365	***4.979***
2022-10-02 6:30	8699427	8.300	-122.530	10.365	972.677	1350.055	0.675	60.565	10.365	***5.155***
2022-10-02 6:45	8700327	8.288	-121.870	10.372	974.033	1351.703	0.676	54.929	10.372	***5.412***
2022-10-02 7:00	8701227	8.322	-123.737	10.382	976.305	1354.485	0.677	47.223	10.382	***5.185***
2022-10-02 7:15	8702127	8.295	-122.256	10.377	975.578	1353.637	0.677	61.324	10.377	***5.114***
2022-10-02 7:30	8703027	8.287	-121.822	10.378	975.463	1353.473	0.677	60.463	10.378	***4.903***
2022-10-02 7:45	8703927	8.284	-121.648	10.382	974.405	1351.832	0.676	58.927	10.382	***5.069***
2022-10-02 8:00	8704827	8.303	-122.681	10.393	977.212	1355.327	0.678	63.309	10.393	***4.425***
2022-10-02 8:15	8705727	8.272	-120.974	10.402	976.019	1353.352	0.677	101.666	10.402	***4.428***
2022-10-02 8:30	8706627	8.262	-120.461	10.410	975.839	1352.827	0.676	106.187	10.410	***4.507***
2022-10-02 8:45	8707527	8.253	-119.948	10.423	975.767	1352.281	0.676	112.821	10.423	***4.153***
2022-10-02 9:00	8708427	8.285	-121.746	10.435	974.917	1350.652	0.675	44.664	10.435	***4.269***
2022-10-02 9:15	8709327	8.267	-120.742	10.449	974.675	1349.820	0.675	51.499	10.449	***4.720***
2022-10-02 9:30	8710227	8.257	-120.201	10.461	974.450	1349.090	0.674	53.665	10.461	***4.614***
2022-10-02 9:45	8711127	8.249	-119.784	10.469	974.013	1348.209	0.674	54.032	10.469	***4.243***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-02 10:00	8712027	8.311	-123.155	10.473	974.107	1348.180	0.674	68.420	10.473	***4.601***
2022-10-02 10:15	8712927	8.285	-121.756	10.477	973.868	1347.704	0.674	60.716	10.477	***5.571***
2022-10-02 10:30	8713827	8.284	-121.698	10.481	974.512	1348.466	0.674	59.999	10.481	***5.830***
2022-10-02 10:45	8714727	8.290	-122.044	10.495	975.919	1349.909	0.675	58.798	10.495	***5.825***
2022-10-02 11:00	8715627	8.326	-124.018	10.510	977.324	1351.294	0.676	46.963	10.510	***5.695***
2022-10-02 11:15	8716527	8.298	-122.464	10.529	977.211	1350.485	0.675	58.043	10.529	***6.202***
2022-10-02 11:30	8717427	8.292	-122.156	10.544	978.389	1351.584	0.676	53.026	10.544	***6.473***
2022-10-02 11:45	8718327	8.288	-121.939	10.553	979.599	1352.935	0.677	52.026	10.553	6.504
2022-10-02 12:00	8719227	8.351	-125.394	10.566	983.142	1357.340	0.679	55.678	10.566	6.674
2022-10-02 12:15	8720127	8.316	-123.487	10.580	984.088	1358.143	0.679	49.211	10.580	6.819
2022-10-02 12:30	8721027	8.325	-123.992	10.588	988.147	1363.485	0.682	49.084	10.588	7.002
2022-10-02 12:45	8721927	8.337	-124.638	10.600	992.327	1368.793	0.685	50.321	10.600	7.138
2022-10-02 13:00	8722827	8.377	-126.829	10.637	997.855	1375.089	0.688	43.097	10.637	7.117
2022-10-02 13:15	8723727	8.345	-125.132	10.678	998.419	1374.380	0.688	47.435	10.678	7.190
2022-10-02 13:30	8724627	8.327	-124.154	10.724	1001.240	1376.605	0.689	50.396	10.724	7.102
2022-10-02 13:45	8725527	8.324	-124.011	10.785	1002.226	1375.737	0.689	55.245	10.785	6.606
2022-10-02 14:00	8726427	8.329	-124.357	10.992	999.783	1365.004	0.684	51.626	10.992	***6.482***
2022-10-02 14:15	8727327	8.273	-121.362	11.151	1000.679	1360.574	0.681	58.212	11.151	***6.247***
2022-10-02 14:30	8728227	8.297	-122.709	11.219	1008.697	1369.061	0.686	62.138	11.219	***6.466***
2022-10-02 14:45	8729127	8.318	-123.894	11.295	1010.575	1368.900	0.686	64.287	11.295	7.202
2022-10-02 15:00	8730027	8.356	-126.052	11.451	1015.360	1369.872	0.687	49.335	11.451	7.914
2022-10-02 15:15	8730927	8.338	-125.070	11.524	1016.097	1368.288	0.686	58.141	11.524	8.115
2022-10-02 15:30	8731827	8.326	-124.452	11.590	1018.260	1368.883	0.686	64.679	11.590	7.872
2022-10-02 15:45	8732727	8.321	-124.242	11.642	1021.240	1371.038	0.688	67.290	11.642	8.130
2022-10-02 16:00	8733627	8.398	-128.493	11.736	1025.607	1373.588	0.689	54.408	11.736	8.281
2022-10-02 16:15	8734527	8.387	-127.892	11.770	1025.873	1372.766	0.689	64.406	11.770	8.995
2022-10-02 16:30	8735427	8.384	-127.709	11.778	1027.137	1374.162	0.689	65.214	11.778	8.979
2022-10-02 16:45	8736327	8.390	-128.081	11.798	1028.289	1375.004	0.690	70.951	11.798	8.942
2022-10-02 17:00	8737227	8.416	-129.552	11.893	1031.202	1375.558	0.690	52.035	11.893	8.971
2022-10-02 17:15	8738127	8.398	-128.524	11.883	1030.537	1375.013	0.690	47.621	11.883	9.252
2022-10-02 17:30	8739027	8.410	-129.235	11.926	1031.768	1375.167	0.690	55.814	11.926	9.190
2022-10-02 17:45	8739927	8.383	-127.773	12.019	1034.196	1375.153	0.690	54.230	12.019	8.885
2022-10-02 18:00	8740827	8.400	-128.787	12.188	1038.149	1374.517	0.690	52.729	12.188	8.856
2022-10-02 18:15	8741727	8.361	-126.717	12.283	1039.068	1372.413	0.689	46.993	12.283	9.086
2022-10-02 18:30	8742627	8.350	-126.128	12.314	1040.159	1372.802	0.689	56.081	12.314	8.616
2022-10-02 18:45	8743527	8.349	-126.038	12.320	1040.482	1373.019	0.689	58.007	12.320	8.262
2022-10-02 19:00	8744427	8.410	-129.364	12.275	1039.018	1372.650	0.689	42.960	12.275	8.684
2022-10-02 19:15	8745327	8.398	-128.644	12.116	1036.671	1375.063	0.690	51.483	12.116	9.711
2022-10-02 19:30	8746227	8.427	-130.198	12.047	1035.445	1375.817	0.691	54.990	12.047	10.287
2022-10-02 19:45	8747127	8.442	-130.994	11.989	1034.531	1376.653	0.691	55.549	11.989	10.507
2022-10-02 20:00	8748027	8.468	-132.439	11.971	1032.805	1374.974	0.690	58.679	11.971	10.450
2022-10-02 20:15	8748927	8.425	-130.026	11.910	1031.985	1376.009	0.691	58.444	11.910	10.158
2022-10-02 20:30	8749827	8.414	-129.445	11.942	1032.220	1375.218	0.690	55.186	11.942	9.689
2022-10-02 20:45	8750727	8.410	-129.201	11.923	1030.242	1373.228	0.689	54.918	11.923	9.392

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-02 21:00	8751627	8.436	-130.622	11.877	1028.920	1373.083	0.689	44.728	11.877	9.411
2022-10-02 21:15	8752527	8.396	-128.403	11.828	1027.576	1373.011	0.689	52.139	11.828	9.100
2022-10-02 21:30	8753427	8.391	-128.136	11.788	1026.427	1372.887	0.689	53.506	11.788	8.865
2022-10-02 21:45	8754327	8.391	-128.107	11.743	1024.491	1371.873	0.688	53.159	11.743	8.996
2022-10-02 22:00	8755227	8.407	-128.961	11.650	1010.808	1356.760	0.680	63.968	11.650	8.555
2022-10-02 22:15	8756127	8.373	-127.046	11.542	1006.200	1354.330	0.679	56.159	11.542	8.268
2022-10-02 22:30	8757027	8.365	-126.553	11.463	1002.347	1351.870	0.677	59.081	11.463	8.056
2022-10-02 22:45	8757927	8.351	-125.756	11.388	996.839	1347.078	0.675	58.977	11.388	7.695
2022-10-02 23:00	8758827	8.376	-127.118	11.321	992.321	1343.287	0.673	43.583	11.321	7.427
2022-10-02 23:15	8759727	8.336	-124.886	11.276	990.540	1342.431	0.672	52.195	11.276	7.302
2022-10-02 23:30	8760627	8.329	-124.471	11.224	988.865	1341.958	0.672	48.448	11.224	7.248
2022-10-02 23:45	8761527	8.310	-123.394	11.162	984.409	1338.073	0.670	51.433	11.162	6.928
2022-10-03 0:00	8762427	8.335	-124.800	11.162	990.134	1345.863	0.674	57.080	11.162	***6.139***
2022-10-03 0:15	8763327	8.301	-122.917	11.131	987.757	1343.687	0.673	50.933	11.131	***5.926***
2022-10-03 0:30	8764227	8.292	-122.380	11.098	988.231	1345.511	0.674	52.921	11.098	***5.637***
2022-10-03 0:45	8765127	8.282	-121.806	11.066	988.530	1347.029	0.674	48.489	11.066	***5.584***
2022-10-03 1:00	8766027	8.306	-123.153	11.052	989.161	1348.366	0.675	44.347	11.052	***5.625***
2022-10-03 1:15	8766927	8.288	-122.130	11.005	983.622	1342.460	0.672	56.562	11.005	***5.914***
2022-10-03 1:30	8767827	8.278	-121.553	10.969	981.221	1340.456	0.671	49.331	10.969	***5.631***
2022-10-03 1:45	8768727	8.268	-120.997	10.913	979.361	1339.857	0.670	58.514	10.913	***5.583***
2022-10-03 2:00	8769627	8.303	-122.919	10.900	983.553	1346.078	0.674	62.385	10.900	***5.454***
2022-10-03 2:15	8770527	8.277	-121.479	10.851	978.927	1341.446	0.671	54.646	10.851	***5.379***
2022-10-03 2:30	8771427	8.267	-120.912	10.834	977.230	1339.717	0.670	52.196	10.834	***5.057***
2022-10-03 2:45	8772327	8.257	-120.339	10.817	976.164	1338.870	0.670	50.607	10.817	***4.746***
2022-10-03 3:00	8773227	8.311	-123.322	10.854	980.865	1344.012	0.672	61.752	10.854	***5.231***
2022-10-03 3:15	8774128	8.286	-121.930	10.837	979.413	1342.591	0.672	52.465	10.837	***5.972***
2022-10-03 3:30	8775028	8.254	-120.175	10.785	977.153	1341.348	0.671	54.673	10.785	***5.368***
2022-10-03 3:45	8775928	8.260	-120.466	10.719	973.684	1338.900	0.670	52.770	10.719	***6.015***
2022-10-03 4:00	8776828	8.319	-123.694	10.713	976.030	1342.333	0.671	60.000	10.713	***6.001***
2022-10-03 4:15	8777728	8.295	-122.368	10.722	975.059	1340.680	0.670	57.998	10.722	***6.145***
2022-10-03 4:30	8778628	8.281	-121.610	10.724	977.407	1343.847	0.672	57.116	10.724	***6.282***
2022-10-03 4:45	8779528	8.276	-121.341	10.721	978.068	1344.860	0.673	54.659	10.721	***5.925***
2022-10-03 5:00	8780428	8.310	-123.188	10.700	977.934	1345.393	0.673	45.306	10.700	***5.655***
2022-10-03 5:15	8781328	8.268	-120.864	10.643	975.041	1343.427	0.672	54.398	10.643	***5.730***
2022-10-03 5:30	8782228	8.263	-120.590	10.601	972.895	1341.955	0.671	59.286	10.601	***5.788***
2022-10-03 5:45	8783128	8.262	-120.535	10.565	971.819	1341.761	0.671	59.156	10.565	***5.762***
2022-10-03 6:00	8784028	8.312	-123.260	10.565	972.640	1342.888	0.671	64.868	10.565	***5.753***
2022-10-03 6:15	8784928	8.277	-121.353	10.547	970.805	1340.997	0.670	58.470	10.547	***5.800***
2022-10-03 6:30	8785828	8.277	-121.300	10.528	970.402	1341.087	0.670	58.438	10.528	***5.924***
2022-10-03 6:45	8786728	8.277	-121.317	10.510	970.164	1341.398	0.671	55.508	10.510	***5.812***
2022-10-03 7:00	8787628	8.311	-123.181	10.487	969.382	1341.132	0.670	49.095	10.487	***5.902***
2022-10-03 7:15	8788528	8.277	-121.291	10.445	966.784	1339.025	0.669	58.000	10.445	***5.942***
2022-10-03 7:30	8789428	8.271	-120.955	10.389	963.920	1337.056	0.668	57.207	10.389	***5.981***
2022-10-03 7:45	8790328	8.268	-120.745	10.349	962.363	1336.307	0.668	59.720	10.349	***5.925***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-03 8:00	8791228	8.292	-122.068	10.349	964.212	1338.867	0.669	68.413	10.349	***5.812***
2022-10-03 8:15	8792128	8.250	-119.765	10.304	960.965	1335.952	0.667	62.287	10.304	***5.483***
2022-10-03 8:30	8793028	8.241	-119.245	10.280	960.146	1335.657	0.667	56.728	10.280	***5.334***
2022-10-03 8:45	8793928	8.241	-119.236	10.255	959.482	1335.651	0.667	60.332	10.255	***5.439***
2022-10-03 9:00	8794828	8.268	-120.687	10.235	959.386	1336.217	0.667	51.368	10.235	***5.434***
2022-10-03 9:15	8795728	8.234	-118.833	10.205	957.945	1335.257	0.667	54.345	10.205	***5.350***
2022-10-03 9:30	8796628	8.229	-118.580	10.182	957.027	1334.794	0.667	60.721	10.182	***5.357***
2022-10-03 9:45	8797528	8.232	-118.718	10.156	956.202	1334.577	0.666	61.244	10.156	***5.515***
2022-10-03 10:00	8798428	8.264	-120.468	10.152	957.179	1336.096	0.667	81.694	10.152	***5.513***
2022-10-03 10:15	8799328	8.227	-118.415	10.123	955.987	1335.472	0.667	60.360	10.123	***5.386***
2022-10-03 10:30	8800228	8.236	-118.930	10.102	955.140	1335.018	0.667	66.827	10.102	***5.477***
2022-10-03 10:45	8801128	8.242	-119.245	10.093	954.635	1334.629	0.666	59.541	10.093	***5.593***
2022-10-03 11:00	8802028	8.272	-120.890	10.092	954.698	1334.774	0.666	46.203	10.092	***5.623***
2022-10-03 11:15	8802928	8.230	-118.566	10.087	954.048	1334.044	0.666	58.416	10.087	***5.337***
2022-10-03 11:30	8803828	8.235	-118.833	10.083	953.759	1333.781	0.666	62.603	10.083	***5.510***
2022-10-03 11:45	8804728	8.238	-118.985	10.081	953.861	1333.973	0.666	63.967	10.081	***5.560***
2022-10-03 12:00	8805628	8.265	-120.456	10.090	955.178	1335.490	0.667	66.427	10.090	***5.618***
2022-10-03 12:15	8806528	8.236	-118.918	10.094	954.703	1334.701	0.666	61.646	10.094	***5.482***
2022-10-03 12:30	8807428	8.235	-118.866	10.098	954.312	1334.025	0.666	58.203	10.098	***5.529***
2022-10-03 12:45	8808328	8.227	-118.418	10.110	954.156	1333.371	0.666	56.296	10.110	***5.199***
2022-10-03 13:00	8809228	8.255	-119.956	10.140	955.944	1334.798	0.667	43.267	10.140	***5.116***
2022-10-03 13:15	8810128	8.206	-117.319	10.172	955.720	1333.340	0.666	72.755	10.172	***4.860***
2022-10-03 13:30	8811028	8.197	-116.804	10.211	956.581	1333.159	0.666	54.843	10.211	***4.844***
2022-10-03 13:45	8811928	8.191	-116.489	10.242	957.201	1332.921	0.666	54.592	10.242	***4.711***
2022-10-03 14:00	8812828	8.236	-119.009	10.312	959.629	1333.827	0.666	70.336	10.312	***4.902***
2022-10-03 14:15	8813728	8.200	-117.059	10.356	960.009	1332.779	0.666	56.863	10.356	***4.875***
2022-10-03 14:30	8814628	8.195	-116.770	10.420	961.357	1332.417	0.666	61.075	10.420	***4.891***
2022-10-03 14:45	8815528	8.217	-118.041	10.464	960.580	1329.789	0.664	57.978	10.464	***5.146***
2022-10-03 15:00	8816428	8.243	-119.486	10.624	965.697	1331.239	0.665	44.117	10.624	***5.354***
2022-10-03 15:15	8817328	8.208	-117.660	10.735	967.695	1330.088	0.665	56.147	10.735	***5.749***
2022-10-03 15:30	8818228	8.230	-118.852	10.730	967.339	1329.791	0.665	53.685	10.730	***5.831***
2022-10-03 15:45	8819128	8.304	-122.867	10.685	964.443	1327.374	0.663	63.697	10.685	7.485
2022-10-03 16:00	8820028	8.310	-123.267	10.822	969.710	1329.809	0.665	63.862	10.822	6.989
2022-10-03 16:15	8820928	8.261	-120.583	10.864	969.841	1328.549	0.664	60.876	10.864	6.822
2022-10-03 16:30	8821828	8.259	-120.516	10.917	971.300	1328.685	0.665	62.725	10.917	6.903
2022-10-03 16:45	8822728	8.247	-119.905	10.994	973.375	1328.852	0.665	56.671	10.994	7.156
2022-10-03 17:00	8823628	8.296	-122.585	11.074	976.167	1329.888	0.665	41.727	11.074	6.967
2022-10-03 17:15	8824528	8.278	-121.596	11.056	975.654	1329.841	0.665	57.727	11.056	7.100
2022-10-03 17:30	8825428	8.304	-123.055	11.082	976.425	1329.963	0.665	57.363	11.082	7.424
2022-10-03 17:45	8826328	8.300	-122.840	11.082	976.445	1330.014	0.665	62.582	11.082	7.731
2022-10-03 18:00	8827228	8.365	-126.395	11.112	977.683	1330.662	0.666	58.670	11.112	8.210
2022-10-03 18:15	8828128	8.331	-124.469	11.016	974.596	1329.774	0.665	71.889	11.016	8.509
2022-10-03 18:30	8829028	8.324	-124.042	10.871	970.868	1329.691	0.665	66.327	10.871	9.322
2022-10-03 18:45	8829928	8.346	-125.196	10.787	968.536	1329.425	0.665	67.109	10.787	8.824

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-03 19:00	8830828	8.385	-127.337	10.764	967.734	1329.137	0.665	51.350	10.764	8.559
2022-10-03 19:15	8831728	8.353	-125.546	10.726	966.847	1329.247	0.665	61.840	10.726	8.376
2022-10-03 19:30	8832628	8.339	-124.822	10.724	966.893	1329.376	0.665	59.030	10.724	8.251
2022-10-03 19:45	8833528	8.328	-124.183	10.706	966.668	1329.704	0.665	61.380	10.706	8.147
2022-10-03 20:00	8834428	8.369	-126.419	10.720	968.292	1331.455	0.666	64.239	10.720	7.866
2022-10-03 20:15	8835328	8.323	-123.935	10.734	968.424	1331.139	0.666	63.142	10.734	7.516
2022-10-03 20:30	8836228	8.311	-123.274	10.767	969.302	1331.176	0.666	60.973	10.767	7.217
2022-10-03 20:45	8837128	8.293	-122.325	10.816	970.664	1331.349	0.666	61.675	10.816	6.696
2022-10-03 21:00	8838028	8.311	-123.312	10.884	971.858	1330.614	0.665	47.628	10.884	6.534
2022-10-03 21:15	8838928	8.265	-120.864	10.935	971.138	1327.844	0.664	62.185	10.935	6.555
2022-10-03 21:30	8839828	8.256	-120.354	10.947	971.131	1327.415	0.664	54.749	10.947	***6.190***
2022-10-03 21:45	8840728	8.245	-119.767	10.942	970.782	1327.119	0.664	60.851	10.942	***5.945***
2022-10-03 22:00	8841628	8.278	-121.558	10.955	971.883	1328.165	0.664	66.993	10.955	***5.665***
2022-10-03 22:15	8842528	8.241	-119.553	10.960	970.589	1326.246	0.663	57.474	10.960	***5.875***
2022-10-03 22:30	8843428	8.230	-118.928	10.957	969.886	1325.393	0.663	58.261	10.957	***5.649***
2022-10-03 22:45	8844328	8.287	-121.975	10.779	962.342	1321.214	0.660	56.271	10.779	***6.417***
2022-10-03 23:00	8845228	8.294	-122.385	10.798	959.974	1317.315	0.658	42.584	10.798	***6.074***
2022-10-03 23:15	8846128	8.241	-119.476	10.825	959.666	1315.948	0.658	54.717	10.825	***5.818***
2022-10-03 23:30	8847028	8.227	-118.692	10.815	959.352	1315.864	0.658	54.328	10.815	***5.729***
2022-10-03 23:45	8847928	8.215	-118.034	10.745	954.914	1312.173	0.656	52.567	10.745	***5.284***
2022-10-04 0:00	8848828	8.243	-119.550	10.750	957.729	1315.884	0.658	61.426	10.750	***4.748***
2022-10-04 0:15	8849728	8.212	-117.860	10.677	953.774	1312.943	0.656	52.023	10.677	***5.228***
2022-10-04 0:30	8850628	8.193	-116.777	10.658	951.916	1311.068	0.655	54.915	10.658	***4.706***
2022-10-04 0:45	8851528	8.188	-116.534	10.660	948.266	1305.946	0.652	63.341	10.660	***4.800***
2022-10-04 1:00	8852428	8.229	-118.763	10.670	954.146	1313.701	0.656	45.769	10.670	***4.789***
2022-10-04 1:15	8853328	8.195	-116.861	10.624	950.969	1310.928	0.655	60.117	10.624	***4.770***
2022-10-04 1:30	8854228	8.188	-116.453	10.554	941.866	1300.768	0.649	58.449	10.554	***4.904***
2022-10-04 1:45	8855128	8.186	-116.303	10.477	933.840	1292.308	0.645	69.385	10.477	***4.932***
2022-10-04 2:00	8856028	8.227	-118.554	10.499	945.003	1307.018	0.653	62.919	10.499	***4.717***
2022-10-04 2:15	8856928	8.196	-116.839	10.374	933.058	1294.765	0.646	62.452	10.374	***4.615***
2022-10-04 2:30	8857828	8.185	-116.203	10.353	934.273	1297.155	0.647	64.808	10.353	***4.509***
2022-10-04 2:45	8858728	8.183	-116.119	10.350	935.066	1298.358	0.648	55.305	10.350	***4.438***
2022-10-04 3:00	8859628	8.221	-118.170	10.348	939.571	1304.692	0.651	39.367	10.348	***4.363***
2022-10-04 3:15	8860528	8.185	-116.198	10.324	935.322	1299.613	0.649	61.156	10.324	***4.534***
2022-10-04 3:30	8861428	8.177	-115.793	10.302	934.624	1299.416	0.648	52.071	10.302	***5.075***
2022-10-04 3:45	8862328	8.182	-116.050	10.287	933.922	1298.938	0.648	61.176	10.287	***5.631***
2022-10-04 4:00	8863228	8.247	-119.569	10.289	937.446	1303.776	0.651	69.746	10.289	***5.407***
2022-10-04 4:15	8864128	8.230	-118.670	10.271	936.484	1303.081	0.650	70.297	10.271	***5.611***
2022-10-04 4:30	8865028	8.260	-120.282	10.256	936.608	1303.747	0.651	75.885	10.256	***6.219***
2022-10-04 4:45	8865928	8.261	-120.323	10.242	936.449	1304.023	0.651	69.225	10.242	***6.376***
2022-10-04 5:00	8866828	8.289	-121.853	10.231	936.862	1304.986	0.651	49.117	10.231	***6.380***
2022-10-04 5:15	8867728	8.263	-120.423	10.207	935.903	1304.462	0.651	73.096	10.207	***6.423***
2022-10-04 5:30	8868628	8.262	-120.378	10.178	935.145	1304.432	0.651	70.764	10.178	6.551
2022-10-04 5:45	8869528	8.263	-120.416	10.136	933.600	1303.734	0.650	65.041	10.136	6.578

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-04 6:00	8870428	8.295	-122.132	10.108	933.113	1304.025	0.650	65.490	10.108	***6.324***
2022-10-04 6:15	8871328	8.239	-119.073	10.053	930.114	1301.731	0.649	71.964	10.053	***5.970***
2022-10-04 6:30	8872228	8.225	-118.265	10.022	928.284	1300.252	0.648	77.413	10.022	***5.706***
2022-10-04 6:45	8873128	8.212	-117.571	10.001	927.767	1300.278	0.648	70.061	10.001	***5.552***
2022-10-04 7:00	8874028	8.236	-118.866	9.988	927.763	1300.702	0.649	42.511	9.988	***5.075***
2022-10-04 7:15	8874928	8.205	-117.154	9.965	926.844	1300.228	0.648	57.514	9.965	***5.304***
2022-10-04 7:30	8875828	8.209	-117.385	9.935	926.042	1300.133	0.648	63.295	9.935	***5.590***
2022-10-04 7:45	8876728	8.209	-117.338	9.897	924.859	1299.799	0.648	68.165	9.897	***5.591***
2022-10-04 8:00	8877628	8.238	-118.914	9.882	924.906	1300.415	0.648	66.475	9.882	***5.330***
2022-10-04 8:15	8878528	8.191	-116.327	9.847	923.448	1299.589	0.648	88.680	9.847	***5.059***
2022-10-04 8:30	8879428	8.183	-115.912	9.831	922.630	1298.992	0.647	88.043	9.831	***4.894***
2022-10-04 8:45	8880328	8.175	-115.476	9.822	922.123	1298.589	0.647	68.821	9.822	***4.785***
2022-10-04 9:00	8881228	8.203	-116.959	9.817	922.465	1299.246	0.648	56.783	9.817	***4.776***
2022-10-04 9:15	8882128	8.169	-115.120	9.801	921.488	1298.438	0.647	72.644	9.801	***4.765***
2022-10-04 9:30	8883028	8.167	-115.011	9.750	919.318	1297.135	0.646	76.162	9.750	***5.008***
2022-10-04 9:45	8883928	8.166	-114.913	9.700	916.513	1294.927	0.645	66.273	9.700	***4.769***
2022-10-04 10:00	8884828	8.203	-116.940	9.679	917.302	1296.798	0.646	73.397	9.679	***4.928***
2022-10-04 10:15	8885728	8.166	-114.889	9.647	915.255	1295.013	0.645	54.893	9.647	***4.848***
2022-10-04 10:30	8886628	8.166	-114.899	9.641	915.200	1295.121	0.645	63.026	9.641	***4.793***
2022-10-04 10:45	8887528	8.170	-115.104	9.641	915.852	1296.061	0.646	76.353	9.641	***5.179***
2022-10-04 11:00	8888428	8.218	-117.757	9.650	917.121	1297.556	0.646	50.965	9.650	***5.240***
2022-10-04 11:15	8889328	8.181	-115.707	9.655	916.736	1296.835	0.646	62.855	9.655	***5.344***
2022-10-04 11:30	8890229	8.193	-116.403	9.662	916.937	1296.866	0.646	65.598	9.662	***5.725***
2022-10-04 11:45	8891129	8.196	-116.568	9.667	917.042	1296.832	0.646	71.131	9.667	***5.718***
2022-10-04 12:00	8892029	8.234	-118.637	9.684	918.405	1298.168	0.647	74.970	9.684	***5.749***
2022-10-04 12:15	8892929	8.204	-116.987	9.692	917.569	1296.708	0.646	85.344	9.692	***5.828***
2022-10-04 12:30	8893829	8.219	-117.812	9.703	917.784	1296.628	0.646	86.435	9.703	***6.108***
2022-10-04 12:45	8894729	8.213	-117.466	9.715	917.938	1296.409	0.646	83.575	9.715	***6.079***
2022-10-04 13:00	8895629	8.259	-120.020	9.737	918.990	1297.122	0.646	53.675	9.737	***6.087***
2022-10-04 13:15	8896529	8.220	-117.900	9.757	918.594	1295.881	0.646	72.049	9.757	***6.119***
2022-10-04 13:30	8897429	8.226	-118.229	9.770	919.140	1296.199	0.646	90.634	9.770	***6.467***
2022-10-04 13:45	8898329	8.225	-118.170	9.791	920.015	1296.705	0.646	83.497	9.791	6.546
2022-10-04 14:00	8899229	8.279	-121.117	9.819	921.807	1298.243	0.647	81.795	9.819	6.680
2022-10-04 14:15	8900129	8.243	-119.143	9.819	921.090	1297.239	0.647	83.425	9.819	6.589
2022-10-04 14:30	8901029	8.243	-119.176	9.844	920.963	1296.178	0.646	77.170	9.844	6.502
2022-10-04 14:45	8901929	8.236	-118.823	9.917	922.646	1295.993	0.646	74.044	9.917	***6.447***
2022-10-04 15:00	8902829	8.250	-119.684	10.092	927.791	1297.157	0.647	50.640	10.092	***6.098***
2022-10-04 15:15	8903729	8.225	-118.349	10.196	929.564	1296.019	0.646	63.474	10.196	***6.337***
2022-10-04 15:30	8904629	8.247	-119.550	10.171	934.232	1303.395	0.650	53.915	10.171	7.273
2022-10-04 15:45	8905529	8.283	-121.469	10.139	932.377	1301.912	0.649	67.676	10.139	7.579
2022-10-04 16:00	8906429	8.313	-123.153	10.227	935.096	1302.654	0.650	75.692	10.227	7.426
2022-10-04 16:15	8907329	8.265	-120.564	10.300	935.672	1300.947	0.649	72.743	10.300	7.228
2022-10-04 16:30	8908229	8.255	-120.053	10.418	937.854	1299.905	0.649	66.871	10.418	7.196
2022-10-04 16:45	8909129	8.243	-119.436	10.510	939.418	1298.887	0.648	69.371	10.510	6.836

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-04 17:00	8910029	8.266	-120.738	10.623	942.057	1298.687	0.648	46.744	10.623	6.637
2022-10-04 17:15	8910929	8.264	-120.656	10.639	945.322	1302.630	0.651	62.649	10.639	7.131
2022-10-04 17:30	8911829	8.257	-120.270	10.668	949.478	1307.364	0.653	60.986	10.668	7.353
2022-10-04 17:45	8912729	8.269	-120.971	10.723	954.787	1312.755	0.656	57.700	10.723	7.385
2022-10-04 18:00	8913629	8.292	-122.259	10.814	956.022	1311.340	0.655	61.702	10.814	7.400
2022-10-04 18:15	8914529	8.248	-119.848	10.841	955.777	1310.085	0.655	75.902	10.841	7.340
2022-10-04 18:30	8915429	8.248	-119.894	10.840	957.638	1312.660	0.656	83.190	10.840	7.174
2022-10-04 18:45	8916329	8.261	-120.583	10.819	959.608	1316.089	0.658	71.103	10.819	7.875
2022-10-04 19:00	8917229	8.327	-124.207	10.812	961.982	1319.575	0.660	44.357	10.812	8.537
2022-10-04 19:15	8918129	8.295	-122.421	10.782	962.105	1320.768	0.660	69.764	10.782	8.774
2022-10-04 19:30	8919029	8.315	-123.479	10.746	960.409	1319.702	0.660	72.638	10.746	9.072
2022-10-04 19:45	8919929	8.319	-123.718	10.701	960.806	1321.793	0.661	66.076	10.701	9.037
2022-10-04 20:00	8920829	8.356	-125.713	10.697	959.925	1320.729	0.660	71.802	10.697	8.910
2022-10-04 20:15	8921729	8.306	-122.969	10.668	958.659	1319.985	0.660	68.828	10.668	8.706
2022-10-04 20:30	8922629	8.308	-123.084	10.659	958.405	1319.946	0.660	58.301	10.659	8.612
2022-10-04 20:45	8923529	8.311	-123.246	10.653	957.941	1319.541	0.659	60.444	10.653	8.543
2022-10-04 21:00	8924429	8.336	-124.593	10.654	957.617	1319.041	0.659	42.418	10.654	8.400
2022-10-04 21:15	8925329	8.300	-122.635	10.642	957.356	1319.091	0.659	58.407	10.642	8.298
2022-10-04 21:30	8926229	8.300	-122.643	10.632	957.806	1320.058	0.660	71.441	10.632	8.300
2022-10-04 21:45	8927129	8.302	-122.726	10.617	958.278	1321.257	0.660	53.169	10.617	8.274
2022-10-04 22:00	8928029	8.328	-124.128	10.611	959.240	1322.783	0.661	61.338	10.611	8.112
2022-10-04 22:15	8928929	8.285	-121.768	10.569	958.208	1322.810	0.661	57.450	10.569	7.797
2022-10-04 22:30	8929829	8.285	-121.737	10.522	956.210	1321.715	0.660	60.264	10.522	7.799
2022-10-04 22:45	8930729	8.285	-121.698	10.424	949.277	1315.524	0.657	59.030	10.424	7.856
2022-10-04 23:00	8931629	8.306	-122.857	10.381	943.934	1309.594	0.654	40.344	10.381	7.381
2022-10-04 23:15	8932529	8.268	-120.735	10.327	939.399	1305.176	0.651	56.094	10.327	7.349
2022-10-04 23:30	8933429	8.260	-120.285	10.279	937.295	1303.935	0.651	59.658	10.279	7.394
2022-10-04 23:45	8934329	8.260	-120.275	10.237	934.485	1301.463	0.649	50.214	10.237	7.835
2022-10-05 0:00	8935229	8.300	-122.466	10.215	935.343	1303.419	0.650	70.243	10.215	7.676
2022-10-05 0:15	8936129	8.260	-120.275	10.215	928.310	1293.630	0.645	55.526	10.215	7.260
2022-10-05 0:30	8937029	8.225	-118.361	10.188	926.535	1292.086	0.644	62.631	10.188	6.902
2022-10-05 0:45	8937929	8.247	-119.507	10.111	906.145	1266.227	0.631	72.739	10.111	6.989
2022-10-05 1:00	8938829	8.277	-121.145	10.094	901.849	1260.817	0.628	44.838	10.094	6.773
2022-10-05 1:15	8939729	8.245	-119.400	10.086	900.018	1258.525	0.627	72.581	10.086	6.836
2022-10-05 1:30	8940629	8.242	-119.216	10.070	898.801	1257.368	0.626	76.698	10.070	6.940
2022-10-05 1:45	8941529	8.236	-118.890	10.054	897.290	1255.788	0.625	95.085	10.054	6.721
2022-10-05 2:00	8942429	8.272	-120.809	10.021	895.301	1254.084	0.624	68.108	10.021	6.502
2022-10-05 2:15	8943329	8.247	-119.479	9.981	891.323	1249.878	0.622	72.990	9.981	6.751
2022-10-05 2:30	8944229	8.239	-119.002	9.938	886.564	1244.619	0.619	80.171	9.938	6.584
2022-10-05 2:45	8945129	8.235	-118.787	9.911	883.643	1241.429	0.618	91.737	9.911	6.615
2022-10-05 3:00	8946029	8.277	-121.050	9.897	884.112	1242.547	0.618	46.317	9.897	6.872
2022-10-05 3:15	8946929	8.250	-119.562	9.889	883.443	1241.859	0.618	52.950	9.889	6.881
2022-10-05 3:30	8947829	8.243	-119.169	9.885	884.061	1242.868	0.618	59.657	9.885	6.824
2022-10-05 3:45	8948729	8.237	-118.871	9.884	883.607	1242.273	0.618	61.575	9.884	6.869

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-05 4:00	8949629	8.278	-121.083	9.895	882.911	1240.937	0.617	66.784	9.895	6.735
2022-10-05 4:15	8950529	8.266	-120.440	9.904	882.934	1240.671	0.617	62.265	9.904	6.935
2022-10-05 4:30	8951429	8.274	-120.876	9.907	882.629	1240.129	0.617	56.444	9.907	7.073
2022-10-05 4:45	8952329	8.264	-120.382	9.931	883.022	1239.895	0.617	67.362	9.931	6.900
2022-10-05 5:00	8953229	8.281	-121.310	9.957	883.073	1239.084	0.617	46.075	9.957	6.580
2022-10-05 5:15	8954129	8.231	-118.589	9.964	882.272	1237.750	0.616	68.670	9.964	***6.020***
2022-10-05 5:30	8955029	8.221	-118.039	9.939	881.317	1237.209	0.616	74.577	9.939	***5.921***
2022-10-05 5:45	8955929	8.216	-117.688	9.862	877.615	1234.567	0.614	67.045	9.862	***6.309***
2022-10-05 6:00	8956829	8.266	-120.430	9.786	871.823	1228.950	0.611	73.999	9.786	6.609
2022-10-05 6:15	8957729	8.256	-119.832	9.678	865.350	1223.369	0.608	59.792	9.678	7.103
2022-10-05 6:30	8958629	8.257	-119.858	9.622	863.689	1222.879	0.608	69.179	9.622	7.312
2022-10-05 6:45	8959529	8.260	-119.970	9.587	862.206	1221.927	0.607	77.239	9.587	7.251
2022-10-05 7:00	8960429	8.293	-121.775	9.583	862.646	1222.671	0.607	46.946	9.583	6.921
2022-10-05 7:15	8961329	8.256	-119.767	9.568	862.479	1222.955	0.608	70.473	9.568	6.852
2022-10-05 7:30	8962229	8.253	-119.615	9.551	862.096	1222.966	0.608	68.867	9.551	6.986
2022-10-05 7:45	8963129	8.250	-119.426	9.535	861.343	1222.434	0.607	73.880	9.535	6.780
2022-10-05 8:00	8964029	8.264	-120.218	9.534	863.604	1225.663	0.609	66.493	9.534	6.729
2022-10-05 8:15	8964929	8.228	-118.213	9.518	862.746	1224.985	0.609	66.836	9.518	***6.395***
2022-10-05 8:30	8965829	8.233	-118.513	9.496	861.366	1223.738	0.608	64.234	9.496	6.648
2022-10-05 8:45	8966729	8.234	-118.527	9.483	860.501	1222.956	0.607	71.515	9.483	6.807
2022-10-05 9:00	8967629	8.272	-120.590	9.481	861.708	1224.724	0.608	49.375	9.481	6.725
2022-10-05 9:15	8968529	8.229	-118.260	9.470	860.718	1223.679	0.608	62.094	9.470	***6.370***
2022-10-05 9:30	8969429	8.232	-118.401	9.462	859.739	1222.574	0.607	71.196	9.462	6.805
2022-10-05 9:45	8970329	8.222	-117.857	9.455	859.518	1222.493	0.607	67.218	9.455	6.979
2022-10-05 10:00	8971229	8.286	-121.381	9.456	859.685	1222.707	0.607	71.505	9.456	6.984
2022-10-05 10:15	8972129	8.247	-119.228	9.454	859.289	1222.208	0.607	59.398	9.454	6.813
2022-10-05 10:30	8973029	8.267	-120.349	9.464	861.323	1224.748	0.608	64.207	9.464	7.027
2022-10-05 10:45	8973929	8.277	-120.893	9.476	863.406	1227.304	0.610	66.729	9.476	7.174
2022-10-05 11:00	8974829	8.317	-123.072	9.493	865.440	1229.641	0.611	49.549	9.493	7.259
2022-10-05 11:15	8975729	8.287	-121.408	9.501	865.375	1229.282	0.611	57.313	9.501	7.089
2022-10-05 11:30	8976629	8.281	-121.121	9.517	865.930	1229.534	0.611	53.381	9.517	6.910
2022-10-05 11:45	8977529	8.272	-120.635	9.550	866.503	1229.243	0.611	51.655	9.550	6.709
2022-10-05 12:00	8978429	8.289	-121.555	9.600	864.118	1224.209	0.608	75.300	9.600	***6.463***
2022-10-05 12:15	8979329	8.231	-118.432	9.643	861.449	1218.993	0.606	61.813	9.643	6.627
2022-10-05 12:30	8980229	8.214	-117.555	9.696	861.718	1217.645	0.605	59.780	9.696	***6.047***
2022-10-05 12:45	8981129	8.210	-117.347	9.753	862.851	1217.372	0.605	63.832	9.753	***6.116***
2022-10-05 13:00	8982029	8.239	-118.964	9.820	863.719	1216.405	0.605	49.267	9.820	***5.806***
2022-10-05 13:15	8982929	8.206	-117.152	9.865	866.300	1218.567	0.606	63.379	9.865	***6.236***
2022-10-05 13:30	8983829	8.200	-116.866	9.890	864.870	1215.745	0.604	60.956	9.890	***6.291***
2022-10-05 13:45	8984729	8.199	-116.801	9.903	863.699	1213.648	0.603	61.281	9.903	***6.314***
2022-10-05 14:00	8985629	8.262	-120.242	9.956	860.332	1207.222	0.600	73.790	9.956	6.613
2022-10-05 14:15	8986529	8.234	-118.744	10.020	857.449	1201.119	0.597	51.709	10.020	7.405
2022-10-05 14:30	8987429	8.233	-118.814	10.212	861.735	1200.952	0.597	65.142	10.212	7.854
2022-10-05 14:45	8988329	8.237	-119.061	10.389	866.204	1201.495	0.598	64.522	10.389	7.858

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-05 15:00	8989229	8.265	-120.649	10.501	868.791	1201.536	0.598	80.393	10.501	7.787
2022-10-05 15:15	8990129	8.262	-120.478	10.441	862.545	1194.779	0.594	73.064	10.441	8.481
2022-10-05 15:30	8991029	8.260	-120.382	10.455	860.411	1191.403	0.593	76.511	10.455	8.519
2022-10-05 15:45	8991929	8.250	-119.870	10.526	862.214	1191.638	0.593	53.042	10.526	7.925
2022-10-05 16:00	8992829	8.281	-121.553	10.609	865.759	1193.930	0.594	61.480	10.609	7.656
2022-10-05 16:15	8993729	8.259	-120.375	10.608	863.049	1190.239	0.592	55.357	10.608	7.966
2022-10-05 16:30	8994629	8.268	-120.885	10.597	862.240	1189.451	0.592	60.143	10.597	8.351
2022-10-05 16:45	8995529	8.288	-121.956	10.638	863.331	1189.675	0.592	69.361	10.638	8.271
2022-10-05 17:00	8996429	8.306	-122.988	10.724	865.573	1190.058	0.592	43.796	10.724	8.015
2022-10-05 17:15	8997329	8.267	-120.907	10.782	866.868	1190.046	0.592	54.072	10.782	7.855
2022-10-05 17:30	8998229	8.242	-119.576	10.902	869.755	1190.252	0.592	60.431	10.902	7.828
2022-10-05 17:45	8999129	8.235	-119.243	10.974	871.648	1190.609	0.593	50.087	10.974	7.313
2022-10-05 18:00	9000029	8.305	-123.084	11.007	873.798	1192.515	0.594	55.591	11.007	8.063
2022-10-05 18:15	9000929	8.291	-122.178	10.713	886.208	1218.806	0.607	52.467	10.713	9.276
2022-10-05 18:30	9001829	8.299	-122.361	10.206	936.107	1304.795	0.651	71.024	10.206	8.866
2022-10-05 18:45	9002729	8.340	-124.428	9.760	965.229	1361.552	0.680	71.783	9.760	8.389
2022-10-05 19:00	9003629	8.396	-127.432	9.635	984.295	1393.146	0.696	64.585	9.635	8.263
2022-10-05 19:15	9004529	8.357	-125.303	9.647	993.595	1405.839	0.703	60.606	9.647	8.402
2022-10-05 19:30	9005430	8.363	-125.616	9.609	1002.323	1419.650	0.710	62.826	9.609	8.517
2022-10-05 19:45	9006330	8.361	-125.446	9.450	1005.843	1430.805	0.715	64.267	9.450	8.531
2022-10-05 20:00	9007230	8.389	-126.889	9.232	1004.650	1437.615	0.719	81.630	9.232	8.484
2022-10-05 20:15	9008130	8.341	-124.187	9.026	1005.500	1446.998	0.723	73.357	9.026	8.495
2022-10-05 20:30	9009030	8.343	-124.269	8.961	1008.748	1454.252	0.727	72.146	8.961	8.630
2022-10-05 20:45	9009930	8.357	-125.005	8.979	1013.902	1460.956	0.730	72.120	8.979	8.775
2022-10-05 21:00	9010830	8.420	-128.465	9.050	1019.478	1466.124	0.733	90.002	9.050	8.928
2022-10-05 21:15	9011730	8.385	-126.600	9.110	1021.846	1467.106	0.734	75.272	9.110	8.979
2022-10-05 21:30	9012630	8.403	-127.616	9.176	1026.122	1470.580	0.736	77.283	9.176	9.038
2022-10-05 21:45	9013530	8.424	-128.744	9.209	1026.870	1470.323	0.736	82.797	9.209	9.122
2022-10-05 22:00	9014430	8.472	-131.395	9.236	1028.447	1471.508	0.736	101.587	9.236	9.156
2022-10-05 22:15	9015330	8.439	-129.602	9.234	1025.945	1467.987	0.735	88.700	9.234	9.191
2022-10-05 22:30	9016230	8.438	-129.545	9.219	1026.392	1469.266	0.735	84.482	9.219	9.173
2022-10-05 22:45	9017130	8.435	-129.375	9.195	1022.859	1465.155	0.733	91.084	9.195	9.129
2022-10-05 23:00	9018030	8.458	-130.577	9.165	1021.097	1463.814	0.732	139.296	9.165	9.056
2022-10-05 23:15	9018930	8.421	-128.584	9.141	1019.448	1462.424	0.731	74.652	9.141	9.104
2022-10-05 23:30	9019830	8.415	-128.238	9.108	1017.833	1461.432	0.731	73.630	9.108	9.073
2022-10-05 23:45	9020730	8.406	-127.714	9.069	1015.956	1460.282	0.730	72.906	9.069	8.976
2022-10-06 0:00	9021630	8.443	-129.719	9.031	1014.551	1459.785	0.730	107.053	9.031	9.028
2022-10-06 0:15	9022530	8.399	-127.304	8.988	1010.707	1456.005	0.728	147.664	8.988	9.038
2022-10-06 0:30	9023430	8.394	-127.025	8.947	1008.325	1454.185	0.727	79.360	8.947	9.031
2022-10-06 0:45	9024330	8.391	-126.801	8.904	1007.206	1454.296	0.727	77.133	8.904	9.008
2022-10-06 1:00	9025230	8.422	-128.498	8.855	1005.455	1453.741	0.726	83.852	8.855	8.992
2022-10-06 1:15	9026130	8.378	-126.078	8.816	1001.756	1449.975	0.724	73.611	8.816	8.988
2022-10-06 1:30	9027030	8.376	-125.961	8.764	1000.350	1450.006	0.724	75.214	8.764	8.977
2022-10-06 1:45	9027930	8.375	-125.859	8.715	999.180	1450.264	0.724	72.851	8.715	8.985

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-06 2:00	9028830	8.415	-128.031	8.657	997.560	1450.270	0.724	89.241	8.657	8.975
2022-10-06 2:15	9029730	8.378	-125.961	8.603	995.179	1448.978	0.723	96.939	8.603	8.986
2022-10-06 2:30	9030630	8.378	-125.954	8.552	994.154	1449.527	0.724	97.701	8.552	8.982
2022-10-06 2:45	9031530	8.376	-125.823	8.505	991.869	1448.098	0.723	93.879	8.505	8.989
2022-10-06 3:00	9032430	8.413	-127.809	8.452	991.436	1449.613	0.723	82.935	8.452	8.997
2022-10-06 3:15	9033330	8.370	-125.453	8.414	988.869	1447.410	0.722	74.261	8.414	8.981
2022-10-06 3:30	9034230	8.370	-125.420	8.367	987.725	1447.601	0.722	71.376	8.367	8.972
2022-10-06 3:45	9035130	8.370	-125.422	8.319	985.910	1446.908	0.722	67.769	8.319	8.983
2022-10-06 4:00	9036030	8.415	-127.819	8.270	985.074	1447.685	0.722	92.908	8.270	8.974
2022-10-06 4:15	9036930	8.381	-125.949	8.215	983.171	1447.114	0.722	144.500	8.215	9.004
2022-10-06 4:30	9037830	8.381	-125.971	8.168	982.063	1447.379	0.722	99.036	8.168	9.006
2022-10-06 4:45	9038730	8.383	-126.042	8.129	980.934	1447.317	0.722	117.975	8.129	8.998
2022-10-06 5:00	9039630	8.420	-128.019	8.089	978.669	1445.607	0.721	85.260	8.089	9.018
2022-10-06 5:15	9040530	8.379	-125.768	8.058	977.618	1445.326	0.720	71.282	8.058	9.024
2022-10-06 5:30	9041430	8.378	-125.742	8.014	975.955	1444.638	0.720	73.376	8.014	9.022
2022-10-06 5:45	9042330	8.380	-125.787	7.976	975.488	1445.505	0.720	71.170	7.976	9.058
2022-10-06 6:00	9043230	8.426	-128.264	7.932	974.279	1445.499	0.720	102.728	7.932	9.028
2022-10-06 6:15	9044130	8.393	-126.469	7.882	971.660	1443.693	0.719	79.884	7.882	9.067
2022-10-06 6:30	9045030	8.397	-126.657	7.835	970.117	1443.320	0.719	90.458	7.835	9.092
2022-10-06 6:45	9045930	8.402	-126.896	7.788	970.582	1445.948	0.720	78.305	7.788	9.133
2022-10-06 7:00	9046830	8.441	-128.982	7.723	967.646	1444.234	0.719	69.030	7.723	9.146
2022-10-06 7:15	9047730	8.396	-126.545	7.694	964.990	1441.469	0.718	66.891	7.694	9.086
2022-10-06 7:30	9048630	8.393	-126.388	7.640	963.600	1441.580	0.717	65.727	7.640	9.127
2022-10-06 7:45	9049530	8.393	-126.374	7.601	962.414	1441.425	0.717	71.739	7.601	9.129
2022-10-06 8:00	9050430	8.440	-128.880	7.541	960.514	1441.041	0.717	91.639	7.541	9.072
2022-10-06 8:15	9051330	8.404	-126.870	7.483	957.960	1439.606	0.716	74.112	7.483	9.143
2022-10-06 8:30	9052230	8.406	-126.994	7.428	956.153	1439.183	0.716	74.014	7.428	9.186
2022-10-06 8:45	9053130	8.406	-126.970	7.390	953.552	1436.839	0.714	108.751	7.390	9.180
2022-10-06 9:00	9054030	8.448	-129.204	7.343	951.981	1436.401	0.714	65.834	7.343	9.174
2022-10-06 9:15	9054930	8.412	-127.234	7.307	950.943	1436.341	0.714	67.268	7.307	9.216
2022-10-06 9:30	9055830	8.408	-126.998	7.277	948.097	1433.259	0.712	69.042	7.277	9.235
2022-10-06 9:45	9056730	8.407	-126.963	7.241	946.689	1432.638	0.712	69.722	7.241	9.200
2022-10-06 10:00	9057630	8.457	-129.635	7.217	945.727	1432.171	0.712	101.253	7.217	9.275
2022-10-06 10:15	9058530	8.417	-127.447	7.201	943.765	1429.858	0.710	71.581	7.201	9.301
2022-10-06 10:30	9059430	8.418	-127.530	7.190	940.828	1425.868	0.708	67.101	7.190	9.331
2022-10-06 10:45	9060330	8.417	-127.478	7.181	938.481	1422.671	0.707	68.300	7.181	9.322
2022-10-06 11:00	9061230	8.453	-129.404	7.171	939.655	1424.867	0.708	52.254	7.171	9.318
2022-10-06 11:15	9062130	8.419	-127.542	7.184	938.333	1422.344	0.706	67.662	7.184	9.354
2022-10-06 11:30	9063030	8.416	-127.425	7.201	934.457	1415.779	0.703	68.794	7.201	9.374
2022-10-06 11:45	9063930	8.422	-127.745	7.218	937.515	1419.682	0.705	71.205	7.218	9.428
2022-10-06 12:00	9064830	8.469	-130.279	7.246	938.627	1420.233	0.706	79.324	7.246	9.474
2022-10-06 12:15	9065730	8.427	-128.021	7.278	938.479	1418.678	0.705	70.535	7.278	9.484
2022-10-06 12:30	9066630	8.431	-128.269	7.316	937.481	1415.615	0.703	71.504	7.316	9.544
2022-10-06 12:45	9067530	8.433	-128.412	7.359	941.953	1420.619	0.706	65.345	7.359	9.585

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-06 13:00	9068430	8.468	-130.341	7.430	941.027	1416.316	0.704	50.339	7.430	9.573
2022-10-06 13:15	9069330	8.428	-128.162	7.481	942.237	1416.075	0.704	63.716	7.481	9.517
2022-10-06 13:30	9070230	8.422	-127.928	7.573	944.822	1416.209	0.704	63.335	7.573	9.508
2022-10-06 13:45	9071130	8.427	-128.231	7.661	943.704	1411.000	0.702	60.192	7.661	9.464
2022-10-06 14:00	9072030	8.463	-130.243	7.844	946.066	1407.153	0.700	81.729	7.844	9.445
2022-10-06 14:15	9072930	8.425	-128.250	7.962	950.526	1409.091	0.701	69.576	7.962	9.578
2022-10-06 14:30	9073830	8.425	-128.305	8.048	952.863	1409.097	0.701	70.627	8.048	9.450
2022-10-06 14:45	9074730	8.407	-127.366	8.140	953.235	1406.012	0.700	69.559	8.140	9.119
2022-10-06 15:00	9075630	8.432	-128.722	8.226	957.590	1408.997	0.702	52.441	8.226	8.899
2022-10-06 15:15	9076530	8.422	-128.214	8.306	962.140	1412.545	0.704	74.039	8.306	9.357
2022-10-06 15:30	9077430	8.395	-126.801	8.330	965.508	1416.541	0.706	69.857	8.330	9.335
2022-10-06 15:45	9078330	8.428	-128.601	8.341	970.334	1423.185	0.709	67.674	8.341	9.646
2022-10-06 16:00	9079230	8.444	-129.490	8.384	973.588	1426.223	0.711	73.009	8.384	9.482
2022-10-06 16:15	9080130	8.391	-126.665	8.510	974.397	1422.387	0.709	74.146	8.510	9.073
2022-10-06 16:30	9081030	8.393	-126.762	8.555	975.360	1422.031	0.709	74.199	8.555	9.245
2022-10-06 16:45	9081930	8.405	-127.432	8.539	976.007	1423.587	0.710	67.335	8.539	9.255
2022-10-06 17:00	9082830	8.428	-128.696	8.564	977.529	1424.817	0.711	43.312	8.564	9.177
2022-10-06 17:15	9083730	8.374	-125.797	8.620	978.030	1423.317	0.710	62.240	8.620	9.537
2022-10-06 17:30	9084630	8.382	-126.219	8.641	978.759	1423.556	0.710	69.164	8.641	9.250
2022-10-06 17:45	9085530	8.379	-126.064	8.664	979.313	1423.469	0.710	68.034	8.664	9.153
2022-10-06 18:00	9086430	8.420	-128.348	8.737	981.461	1423.712	0.710	104.516	8.737	9.007
2022-10-06 18:15	9087330	8.394	-126.929	8.763	980.329	1421.020	0.709	90.835	8.763	9.136
2022-10-06 18:30	9088230	8.393	-126.882	8.742	979.580	1420.761	0.709	86.759	8.742	9.288
2022-10-06 18:45	9089130	8.392	-126.827	8.730	978.672	1419.925	0.708	85.717	8.730	9.194
2022-10-06 19:00	9090030	8.447	-129.800	8.711	975.759	1416.425	0.707	52.162	8.711	9.132
2022-10-06 19:15	9090930	8.406	-127.552	8.694	974.240	1414.907	0.706	77.421	8.694	9.320
2022-10-06 19:30	9091831	8.375	-125.864	8.692	973.977	1414.604	0.706	58.047	8.692	9.089
2022-10-06 19:45	9092731	8.362	-125.141	8.694	973.859	1414.356	0.706	74.919	8.694	8.996
2022-10-06 20:00	9093631	8.400	-127.199	8.699	976.003	1417.255	0.707	119.299	8.699	8.632
2022-10-06 20:15	9094531	8.371	-125.649	8.689	974.874	1416.033	0.706	94.025	8.689	8.395
2022-10-06 20:30	9095431	8.368	-125.463	8.669	972.850	1413.868	0.705	101.203	8.669	8.392
2022-10-06 20:45	9096331	8.354	-124.695	8.651	972.182	1413.601	0.705	103.054	8.651	8.186
2022-10-06 21:00	9097231	8.395	-126.934	8.641	972.209	1414.052	0.705	106.084	8.641	8.166
2022-10-06 21:15	9098131	8.371	-125.589	8.601	969.647	1411.859	0.704	91.705	8.601	8.351
2022-10-06 21:30	9099031	8.364	-125.213	8.561	969.883	1413.809	0.705	108.450	8.561	8.321
2022-10-06 21:45	9099931	8.381	-126.131	8.544	970.434	1415.249	0.706	98.626	8.544	8.363
2022-10-06 22:00	9100831	8.419	-128.171	8.523	970.561	1416.286	0.706	113.789	8.523	8.219
2022-10-06 22:15	9101731	8.387	-126.395	8.483	969.039	1415.617	0.706	98.879	8.483	8.413
2022-10-06 22:30	9102631	8.384	-126.269	8.460	966.819	1413.317	0.705	107.228	8.460	8.603
2022-10-06 22:45	9103531	8.383	-126.188	8.438	966.099	1413.134	0.704	102.970	8.438	8.390
2022-10-06 23:00	9104431	8.419	-128.098	8.411	967.543	1416.276	0.706	58.067	8.411	8.380
2022-10-06 23:15	9105331	8.398	-126.984	8.382	968.078	1418.232	0.707	69.699	8.382	8.513
2022-10-06 23:30	9106231	8.392	-126.619	8.350	967.835	1419.143	0.707	72.350	8.350	8.408
2022-10-06 23:45	9107131	8.396	-126.836	8.326	968.130	1420.531	0.708	81.916	8.326	8.362

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-07 0:00	9108031	8.441	-129.242	8.305	967.761	1420.827	0.708	86.264	8.305	8.253
2022-10-07 0:15	9108931	8.393	-126.653	8.278	966.435	1419.965	0.708	80.842	8.278	8.108
2022-10-07 0:30	9109831	8.403	-127.163	8.243	964.960	1419.181	0.707	85.231	8.243	8.189
2022-10-07 0:45	9110731	8.402	-127.089	8.203	963.306	1418.344	0.707	89.826	8.203	8.200
2022-10-07 1:00	9111631	8.441	-129.197	8.171	962.269	1418.098	0.706	54.732	8.171	8.151
2022-10-07 1:15	9112531	8.408	-127.373	8.119	960.073	1416.947	0.706	90.555	8.119	8.085
2022-10-07 1:30	9113431	8.418	-127.885	8.031	956.131	1414.610	0.704	76.631	8.031	8.182
2022-10-07 1:45	9114331	8.418	-127.869	7.982	955.086	1415.022	0.704	87.841	7.982	8.232
2022-10-07 2:00	9115231	8.478	-131.094	7.929	952.849	1413.842	0.704	97.099	7.929	8.195
2022-10-07 2:15	9116131	8.457	-129.919	7.855	948.248	1409.978	0.702	109.836	7.855	8.355
2022-10-07 2:30	9117031	8.444	-129.216	7.789	944.255	1406.677	0.700	91.338	7.789	8.402
2022-10-07 2:45	9117931	8.438	-128.880	7.759	943.209	1406.313	0.699	94.474	7.759	8.334
2022-10-07 3:00	9118831	8.467	-130.420	7.727	942.021	1405.819	0.699	73.784	7.727	8.110
2022-10-07 3:15	9119731	8.408	-127.201	7.697	941.191	1405.801	0.699	90.280	7.697	7.885
2022-10-07 3:30	9120631	8.399	-126.700	7.671	940.605	1405.945	0.699	100.128	7.671	7.548
2022-10-07 3:45	9121531	8.395	-126.479	7.637	940.464	1407.091	0.700	101.105	7.637	7.272
2022-10-07 4:00	9122431	8.430	-128.348	7.611	941.389	1409.536	0.701	98.809	7.611	7.166
2022-10-07 4:15	9123331	8.378	-125.523	7.550	938.455	1407.605	0.700	98.175	7.550	7.204
2022-10-07 4:30	9124231	8.380	-125.601	7.472	934.401	1404.661	0.698	108.506	7.472	6.679
2022-10-07 4:45	9125131	8.376	-125.349	7.429	932.475	1403.489	0.697	116.535	7.429	6.747
2022-10-07 5:00	9126031	8.403	-126.817	7.431	935.818	1408.461	0.700	54.876	7.431	***6.441***
2022-10-07 5:15	9126931	8.354	-124.133	7.392	930.908	1402.630	0.697	117.882	7.392	***6.479***
2022-10-07 5:30	9127831	8.348	-123.785	7.334	929.879	1403.410	0.697	125.596	7.334	***6.212***
2022-10-07 5:45	9128731	8.339	-123.289	7.312	927.590	1400.851	0.696	123.627	7.312	***6.205***
2022-10-07 6:00	9129631	8.384	-125.730	7.313	932.276	1407.879	0.699	82.873	7.313	***6.091***
2022-10-07 6:15	9130531	8.347	-123.727	7.257	925.407	1399.784	0.695	111.649	7.257	***6.187***
2022-10-07 6:30	9131431	8.332	-122.881	7.248	924.016	1398.059	0.694	103.020	7.248	***6.076***
2022-10-07 6:45	9132331	8.328	-122.678	7.227	925.480	1401.119	0.696	137.171	7.227	***6.107***
2022-10-07 7:00	9133231	8.370	-124.955	7.225	927.848	1404.768	0.697	48.714	7.225	***5.949***
2022-10-07 7:15	9134131	8.330	-122.781	7.214	926.572	1403.296	0.697	105.797	7.214	***6.041***
2022-10-07 7:30	9135031	8.325	-122.478	7.178	922.536	1398.635	0.694	94.425	7.178	***5.896***
2022-10-07 7:45	9135931	8.336	-123.034	7.120	918.700	1395.170	0.692	124.420	7.120	***6.362***
2022-10-07 8:00	9136831	8.393	-126.123	7.081	920.032	1398.757	0.694	102.110	7.081	***6.431***
2022-10-07 8:15	9137731	8.349	-123.701	7.012	915.138	1394.100	0.691	115.642	7.012	6.515
2022-10-07 8:30	9138631	8.347	-123.584	6.991	913.779	1392.909	0.691	121.352	6.991	***6.358***
2022-10-07 8:45	9139531	8.351	-123.820	6.990	913.124	1391.936	0.690	139.721	6.990	***6.291***
2022-10-07 9:00	9140431	8.395	-126.207	7.026	915.943	1394.769	0.692	50.486	7.026	***6.328***
2022-10-07 9:15	9141331	8.348	-123.692	7.043	915.346	1393.180	0.691	121.976	7.043	***6.415***
2022-10-07 9:30	9142231	8.342	-123.355	7.064	915.941	1393.213	0.691	108.986	7.064	***6.149***
2022-10-07 9:45	9143131	8.332	-122.850	7.091	916.797	1393.443	0.691	137.632	7.091	***6.267***
2022-10-07 10:00	9144031	8.395	-126.281	7.166	921.382	1397.353	0.693	80.268	7.166	***6.490***
2022-10-07 10:15	9144931	8.364	-124.586	7.175	921.107	1396.574	0.693	129.510	7.175	6.955
2022-10-07 10:30	9145831	8.362	-124.485	7.187	922.067	1397.543	0.694	140.508	7.187	7.137
2022-10-07 10:45	9146731	8.363	-124.524	7.201	922.801	1398.106	0.694	153.010	7.201	7.224

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-07 11:00	9147631	8.404	-126.810	7.249	924.927	1399.381	0.695	45.955	7.249	7.144
2022-10-07 11:15	9148531	8.364	-124.621	7.263	925.083	1399.037	0.695	107.640	7.263	7.349
2022-10-07 11:30	9149431	8.353	-124.035	7.274	925.556	1399.315	0.695	127.021	7.274	7.362
2022-10-07 11:45	9150331	8.352	-123.973	7.283	925.974	1399.583	0.695	148.592	7.283	7.429
2022-10-07 12:00	9151231	8.418	-127.547	7.310	927.678	1401.055	0.696	71.316	7.310	7.458
2022-10-07 12:15	9152131	8.367	-124.817	7.307	926.749	1399.769	0.695	116.725	7.307	7.358
2022-10-07 12:30	9153031	8.366	-124.774	7.323	927.133	1399.733	0.695	143.145	7.323	7.254
2022-10-07 12:45	9153931	8.368	-124.862	7.354	927.511	1399.063	0.695	130.410	7.354	6.981
2022-10-07 13:00	9154831	8.411	-127.254	7.395	928.923	1399.531	0.695	45.916	7.395	6.845
2022-10-07 13:15	9155731	8.348	-123.851	7.437	929.240	1398.303	0.695	161.827	7.437	6.890
2022-10-07 13:30	9156631	8.344	-123.668	7.477	929.488	1397.089	0.694	141.831	7.477	6.652
2022-10-07 13:45	9157531	8.343	-123.613	7.525	930.577	1396.802	0.694	173.308	7.525	6.895
2022-10-07 14:00	9158431	8.382	-125.768	7.582	932.867	1397.938	0.695	77.027	7.582	6.730
2022-10-07 14:15	9159331	8.347	-123.861	7.616	930.314	1392.776	0.692	173.010	7.616	7.541
2022-10-07 14:30	9160231	8.341	-123.556	7.663	930.672	1391.434	0.692	163.178	7.663	7.576
2022-10-07 14:45	9161131	8.341	-123.591	7.723	931.498	1390.283	0.691	156.097	7.723	7.752
2022-10-07 15:00	9162031	8.410	-127.370	7.801	934.912	1392.269	0.692	46.133	7.801	7.689
2022-10-07 15:15	9162931	8.378	-125.666	7.860	937.282	1393.450	0.693	137.614	7.860	8.312
2022-10-07 15:30	9163831	8.370	-125.222	7.918	939.502	1394.489	0.694	155.816	7.918	8.378
2022-10-07 15:45	9164731	8.388	-126.250	7.996	942.162	1395.347	0.694	115.447	7.996	8.729
2022-10-07 16:00	9165631	8.460	-130.203	8.080	945.900	1397.559	0.696	67.866	8.080	8.945
2022-10-07 16:15	9166531	8.418	-127.926	8.089	946.645	1398.280	0.696	147.699	8.089	9.320
2022-10-07 16:30	9167431	8.415	-127.807	8.182	948.995	1398.117	0.696	162.993	8.182	9.318
2022-10-07 16:45	9168331	8.411	-127.656	8.309	952.425	1398.159	0.696	165.847	8.309	9.276
2022-10-07 17:00	9169231	8.444	-129.442	8.356	954.316	1399.072	0.697	49.090	8.356	9.049
2022-10-07 17:15	9170131	8.412	-127.735	8.387	954.391	1397.990	0.696	175.018	8.387	9.185
2022-10-07 17:30	9171031	8.408	-127.568	8.473	956.481	1397.671	0.696	186.610	8.473	8.960
2022-10-07 17:45	9171931	8.398	-127.039	8.510	957.622	1397.910	0.697	116.136	8.510	8.841
2022-10-07 18:00	9172831	8.439	-129.259	8.560	960.145	1399.631	0.698	63.774	8.560	8.916
2022-10-07 18:15	9173731	8.395	-126.879	8.519	958.538	1398.900	0.697	163.556	8.519	8.949
2022-10-07 18:30	9174631	8.400	-127.137	8.504	958.144	1398.914	0.697	165.751	8.504	8.879
2022-10-07 18:45	9175531	8.404	-127.363	8.487	957.726	1398.968	0.697	165.867	8.487	8.805
2022-10-07 19:00	9176431	8.443	-129.445	8.498	957.885	1398.775	0.697	43.219	8.498	8.891
2022-10-07 19:15	9177331	8.395	-126.812	8.444	956.098	1398.240	0.697	152.982	8.444	8.774
2022-10-07 19:30	9178232	8.388	-126.448	8.431	955.704	1398.170	0.697	145.564	8.431	8.806
2022-10-07 19:45	9179132	8.405	-127.404	8.448	955.747	1397.583	0.696	156.595	8.448	8.741
2022-10-07 20:00	9180032	8.410	-127.690	8.518	958.501	1398.885	0.697	65.801	8.518	8.468
2022-10-07 20:15	9180932	8.358	-124.879	8.506	956.932	1397.037	0.696	178.012	8.506	8.121
2022-10-07 20:30	9181832	8.371	-125.551	8.499	956.231	1396.290	0.696	131.277	8.499	8.250
2022-10-07 20:45	9182732	8.370	-125.515	8.489	955.212	1395.198	0.695	176.480	8.489	8.137
2022-10-07 21:00	9183632	8.412	-127.764	8.468	955.376	1396.275	0.696	52.049	8.468	8.228
2022-10-07 21:15	9184532	8.365	-125.189	8.421	954.548	1396.882	0.696	157.256	8.421	7.952
2022-10-07 21:30	9185432	8.377	-125.828	8.387	953.918	1397.308	0.696	87.657	8.387	7.974
2022-10-07 21:45	9186332	8.371	-125.487	8.393	953.729	1396.765	0.696	156.068	8.393	8.002

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-07 22:00	9187232	8.395	-126.848	8.422	954.581	1396.896	0.696	78.231	8.422	7.938
2022-10-07 22:15	9188132	8.343	-123.973	8.386	953.102	1396.134	0.695	152.581	8.386	7.591
2022-10-07 22:30	9189032	8.344	-124.059	8.370	951.976	1395.110	0.695	130.701	8.370	7.596
2022-10-07 22:45	9189932	8.344	-124.033	8.372	951.490	1394.303	0.694	156.576	8.372	7.480
2022-10-07 23:00	9190832	8.372	-125.554	8.385	952.787	1395.708	0.695	50.263	8.385	7.420
2022-10-07 23:15	9191732	8.315	-122.483	8.354	951.523	1395.067	0.695	138.945	8.354	6.877
2022-10-07 23:30	9192632	8.329	-123.203	8.342	950.760	1394.437	0.694	143.301	8.342	6.891
2022-10-07 23:45	9193532	8.327	-123.079	8.343	950.202	1393.556	0.694	176.290	8.343	6.633
2022-10-08 0:00	9194432	8.357	-124.760	8.356	951.966	1395.635	0.695	70.393	8.356	6.618
2022-10-08 0:15	9195332	8.305	-121.903	8.312	949.457	1393.663	0.694	209.353	8.312	6.596
2022-10-08 0:30	9196232	8.314	-122.368	8.264	945.412	1389.616	0.692	230.300	8.264	***6.481***
2022-10-08 0:45	9197132	8.308	-122.030	8.222	942.729	1387.312	0.691	214.697	8.222	6.635
2022-10-08 1:00	9198032	8.330	-123.219	8.201	945.104	1391.604	0.693	55.101	8.201	***6.217***
2022-10-08 1:15	9198932	8.296	-121.326	8.121	937.185	1383.079	0.688	144.201	8.121	***6.289***
2022-10-08 1:30	9199832	8.281	-120.461	8.029	932.398	1379.596	0.686	139.704	8.029	***5.779***
2022-10-08 1:45	9200732	8.264	-119.550	7.976	929.895	1377.956	0.685	159.094	7.976	***5.500***
2022-10-08 2:00	9201632	8.317	-122.430	7.985	936.970	1388.058	0.690	63.185	7.985	***5.289***
2022-10-08 2:15	9202532	8.280	-120.344	7.880	928.439	1379.525	0.686	146.239	7.880	***5.839***
2022-10-08 2:30	9203432	8.256	-119.040	7.855	927.696	1379.424	0.686	148.554	7.855	***5.116***
2022-10-08 2:45	9204332	8.253	-118.902	7.880	931.897	1384.680	0.688	127.358	7.880	***5.182***
2022-10-08 3:00	9205232	8.303	-121.610	7.882	932.408	1385.343	0.689	45.411	7.882	***5.311***
2022-10-08 3:15	9206132	8.269	-119.758	7.842	928.962	1381.806	0.687	177.506	7.842	***5.484***
2022-10-08 3:30	9207032	8.266	-119.545	7.797	927.065	1380.751	0.686	94.875	7.797	***5.206***
2022-10-08 3:45	9207932	8.264	-119.433	7.755	920.664	1372.864	0.682	123.059	7.755	***5.179***
2022-10-08 4:00	9208832	8.313	-122.092	7.798	929.022	1383.607	0.688	71.159	7.798	***5.335***
2022-10-08 4:15	9209732	8.279	-120.232	7.759	922.543	1375.486	0.683	154.045	7.759	***5.444***
2022-10-08 4:30	9210632	8.266	-119.512	7.703	918.813	1372.135	0.682	196.868	7.703	***5.330***
2022-10-08 4:45	9211532	8.267	-119.536	7.641	917.560	1372.666	0.682	164.990	7.641	***5.486***
2022-10-08 5:00	9212432	8.314	-122.061	7.630	921.442	1378.906	0.685	44.709	7.630	***5.465***
2022-10-08 5:15	9213332	8.274	-119.891	7.577	919.929	1378.743	0.685	123.304	7.577	***5.408***
2022-10-08 5:30	9214232	8.267	-119.514	7.538	916.977	1375.844	0.683	124.200	7.538	***5.269***
2022-10-08 5:45	9215132	8.271	-119.703	7.496	910.401	1367.640	0.679	114.970	7.496	***5.193***
2022-10-08 6:00	9216032	8.318	-122.230	7.491	917.213	1378.079	0.684	66.658	7.491	***5.160***
2022-10-08 6:15	9216932	8.275	-119.889	7.414	906.667	1365.238	0.677	122.388	7.414	***5.276***
2022-10-08 6:30	9217832	8.270	-119.598	7.376	904.140	1362.912	0.676	125.385	7.376	***5.175***
2022-10-08 6:45	9218732	8.274	-119.786	7.344	907.850	1369.766	0.680	122.840	7.344	***5.206***
2022-10-08 7:00	9219632	8.315	-121.994	7.305	908.439	1372.208	0.681	41.681	7.305	***5.235***
2022-10-08 7:15	9220532	8.269	-119.462	7.241	903.923	1367.897	0.678	124.992	7.241	***5.215***
2022-10-08 7:30	9221432	8.267	-119.364	7.177	893.159	1354.144	0.671	109.605	7.177	***5.145***
2022-10-08 7:45	9222332	8.268	-119.390	7.145	894.096	1356.795	0.672	100.864	7.145	***5.389***
2022-10-08 8:00	9223232	8.323	-122.373	7.135	898.698	1364.174	0.676	70.730	7.135	***5.404***
2022-10-08 8:15	9224132	8.284	-120.258	7.112	889.740	1351.504	0.670	122.742	7.112	***5.819***
2022-10-08 8:30	9225032	8.276	-119.810	7.098	888.559	1350.249	0.669	133.240	7.098	***5.775***
2022-10-08 8:45	9225932	8.270	-119.479	7.100	889.223	1351.186	0.669	128.871	7.100	***5.479***

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-08 9:00	9226832	8.316	-121.953	7.113	893.490	1357.129	0.673	48.928	7.113	***5.340***
2022-10-08 9:15	9227732	8.265	-119.231	7.107	890.430	1352.732	0.670	113.566	7.107	***5.509***
2022-10-08 9:30	9228632	8.262	-119.071	7.158	892.070	1353.234	0.671	115.031	7.158	***5.217***
2022-10-08 9:45	9229532	8.265	-119.250	7.216	895.834	1356.673	0.673	122.271	7.216	***5.180***
2022-10-08 10:00	9230432	8.309	-121.675	7.286	900.459	1360.914	0.675	73.547	7.286	***5.452***
2022-10-08 10:15	9231332	8.264	-119.278	7.343	902.402	1361.583	0.675	122.733	7.343	***6.024***
2022-10-08 10:30	9232232	8.274	-119.810	7.410	906.534	1365.208	0.677	146.410	7.410	***6.226***
2022-10-08 10:45	9233132	8.280	-120.168	7.456	910.054	1368.695	0.679	117.260	7.456	6.665
2022-10-08 11:00	9234032	8.342	-123.525	7.506	913.862	1372.428	0.681	43.722	7.506	6.799
2022-10-08 11:15	9234932	8.307	-121.653	7.534	914.119	1371.721	0.681	134.967	7.534	7.099
2022-10-08 11:30	9235832	8.312	-121.968	7.555	916.031	1373.765	0.682	130.733	7.555	7.204
2022-10-08 11:45	9236732	8.320	-122.378	7.592	918.074	1375.377	0.683	118.913	7.592	7.315
2022-10-08 12:00	9237632	8.373	-125.265	7.644	921.001	1377.706	0.684	64.532	7.644	7.449
2022-10-08 12:15	9238532	8.307	-121.729	7.682	921.771	1377.375	0.684	131.252	7.682	7.328
2022-10-08 12:30	9239432	8.315	-122.159	7.705	923.663	1379.277	0.685	126.178	7.705	7.311
2022-10-08 12:45	9240332	8.326	-122.757	7.696	923.052	1378.739	0.685	99.562	7.696	7.727
2022-10-08 13:00	9241232	8.392	-126.331	7.657	922.188	1378.976	0.685	44.169	7.657	8.245
2022-10-08 13:15	9242132	8.363	-124.707	7.546	920.255	1380.463	0.686	120.143	7.546	8.911
2022-10-08 13:30	9243032	8.354	-124.199	7.553	922.266	1383.194	0.687	91.724	7.553	8.916
2022-10-08 13:45	9243932	8.358	-124.412	7.550	923.992	1385.895	0.688	128.794	7.550	8.899
2022-10-08 14:00	9244832	8.419	-127.745	7.606	929.518	1391.967	0.692	78.653	7.606	8.997
2022-10-08 14:15	9245732	8.384	-125.873	7.641	931.745	1393.893	0.693	155.183	7.641	9.040
2022-10-08 14:30	9246632	8.388	-126.140	7.727	935.050	1395.417	0.694	125.174	7.727	9.040
2022-10-08 14:45	9247532	8.381	-125.811	7.831	937.318	1394.687	0.694	124.154	7.831	8.996
2022-10-08 15:00	9248432	8.417	-127.831	7.948	940.318	1394.494	0.694	47.436	7.948	8.990
2022-10-08 15:15	9249332	8.369	-125.227	8.035	940.867	1391.869	0.693	125.245	8.035	9.092
2022-10-08 15:30	9250232	8.359	-124.714	8.123	942.178	1390.359	0.692	120.886	8.123	8.937
2022-10-08 15:45	9251132	8.356	-124.636	8.227	943.818	1388.720	0.691	127.244	8.227	8.847
2022-10-08 16:00	9252032	8.404	-127.304	8.350	947.156	1388.817	0.692	75.852	8.350	8.911
2022-10-08 16:15	9252932	8.367	-125.315	8.429	946.715	1385.129	0.690	133.241	8.429	9.147
2022-10-08 16:30	9253832	8.365	-125.232	8.491	946.951	1383.052	0.689	121.082	8.491	8.941
2022-10-08 16:45	9254732	8.364	-125.225	8.542	945.882	1379.529	0.687	99.153	8.542	8.935
2022-10-08 17:00	9255632	8.410	-127.716	8.572	947.796	1381.161	0.688	51.347	8.572	8.965
2022-10-08 17:15	9256532	8.357	-124.834	8.614	946.906	1378.252	0.687	134.453	8.614	9.063
2022-10-08 17:30	9257432	8.344	-124.152	8.672	949.618	1379.971	0.688	125.353	8.672	8.856
2022-10-08 17:45	9258332	8.340	-123.932	8.677	949.591	1379.752	0.687	139.129	8.677	8.911
2022-10-08 18:00	9259232	8.379	-126.061	8.684	949.290	1379.033	0.687	86.807	8.684	8.565
2022-10-08 18:15	9260132	8.337	-123.818	8.691	947.237	1375.812	0.685	145.626	8.691	8.463
2022-10-08 18:30	9261032	8.312	-122.454	8.701	946.301	1374.073	0.685	127.295	8.701	7.930
2022-10-08 18:45	9261932	8.301	-121.863	8.710	945.498	1372.536	0.684	115.990	8.710	8.083
2022-10-08 19:00	9262832	8.341	-124.035	8.724	945.955	1372.672	0.684	43.168	8.724	7.931
2022-10-08 19:15	9263732	8.302	-121.913	8.736	945.563	1371.659	0.683	106.796	8.736	8.023
2022-10-08 19:30	9264633	8.295	-121.548	8.746	944.862	1370.251	0.683	114.829	8.746	7.964
2022-10-08 19:45	9265533	8.291	-121.346	8.754	943.433	1367.886	0.681	112.510	8.754	7.858

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-08 20:00	9266433	8.340	-124.009	8.768	943.206	1367.021	0.681	75.426	8.768	7.906
2022-10-08 20:15	9267333	8.305	-122.087	8.782	939.149	1360.623	0.678	115.414	8.782	7.946
2022-10-08 20:30	9268233	8.294	-121.524	8.793	939.535	1360.768	0.678	137.395	8.793	7.748
2022-10-08 20:45	9269133	8.293	-121.460	8.798	939.247	1360.143	0.678	116.364	8.798	7.810
2022-10-08 21:00	9270033	8.333	-123.639	8.809	937.505	1357.225	0.676	45.474	8.809	7.791
2022-10-08 21:15	9270933	8.292	-121.400	8.819	936.153	1354.895	0.675	123.920	8.819	7.964
2022-10-08 21:30	9271833	8.284	-120.957	8.825	935.478	1353.690	0.674	102.264	8.825	7.737
2022-10-08 21:45	9272733	8.276	-120.530	8.824	933.592	1350.994	0.673	89.855	8.824	7.686
2022-10-08 22:00	9273633	8.322	-123.045	8.820	934.432	1352.352	0.673	77.396	8.820	7.588
2022-10-08 22:15	9274533	8.288	-121.179	8.798	930.644	1347.702	0.671	111.923	8.798	7.635
2022-10-08 22:30	9275433	8.277	-120.554	8.746	926.383	1343.455	0.669	93.406	8.746	7.508
2022-10-08 22:45	9276333	8.268	-120.039	8.666	920.355	1337.691	0.666	140.166	8.666	7.274
2022-10-08 23:00	9277233	8.309	-122.252	8.659	924.779	1344.387	0.669	47.504	8.659	7.131
2022-10-08 23:15	9278133	8.276	-120.463	8.648	919.849	1337.628	0.666	111.392	8.648	7.253
2022-10-08 23:30	9279033	8.266	-119.929	8.655	919.242	1336.464	0.665	128.293	8.655	7.088
2022-10-08 23:45	9279933	8.258	-119.495	8.602	916.343	1334.229	0.664	117.830	8.602	7.077
2022-10-09 0:00	9280833	8.319	-122.776	8.535	915.337	1335.244	0.664	71.028	8.535	7.003
2022-10-09 0:15	9281733	8.294	-121.338	8.413	904.337	1323.686	0.658	130.843	8.413	7.355
2022-10-09 0:30	9282633	8.280	-120.537	8.341	904.451	1326.538	0.659	117.527	8.341	7.088
2022-10-09 0:45	9283533	8.276	-120.294	8.302	907.219	1332.039	0.662	74.834	8.302	7.002
2022-10-09 1:00	9284433	8.314	-122.373	8.287	908.885	1335.055	0.664	43.586	8.287	7.006
2022-10-09 1:15	9285333	8.279	-120.435	8.243	903.537	1328.846	0.660	140.070	8.243	6.992
2022-10-09 1:30	9286233	8.268	-119.839	8.222	899.768	1324.080	0.658	143.743	8.222	6.908
2022-10-09 1:45	9287133	8.257	-119.250	8.202	900.732	1326.256	0.659	136.442	8.202	6.755
2022-10-09 2:00	9288033	8.300	-121.560	8.193	903.352	1330.455	0.661	72.303	8.193	6.591
2022-10-09 2:15	9288933	8.265	-119.648	8.134	898.663	1325.747	0.658	144.631	8.134	6.727
2022-10-09 2:30	9289833	8.263	-119.507	8.112	896.309	1323.076	0.657	130.908	8.112	6.706
2022-10-09 2:45	9290733	8.250	-118.825	8.100	896.211	1323.402	0.657	136.917	8.100	6.651
2022-10-09 3:00	9291633	8.308	-121.992	8.101	897.391	1325.093	0.658	46.032	8.101	6.773
2022-10-09 3:15	9292533	8.277	-120.294	8.093	896.248	1323.719	0.657	147.882	8.093	6.761
2022-10-09 3:30	9293433	8.268	-119.774	8.075	895.795	1323.690	0.657	153.329	8.075	6.882
2022-10-09 3:45	9294333	8.273	-120.070	8.038	894.741	1323.512	0.657	117.135	8.038	7.031
2022-10-09 4:00	9295233	8.308	-121.913	8.020	895.473	1325.292	0.658	93.977	8.020	6.763
2022-10-09 4:15	9296133	8.266	-119.607	7.965	892.377	1322.744	0.657	150.591	7.965	6.910
2022-10-09 4:30	9297033	8.275	-120.122	7.940	891.421	1322.269	0.656	145.129	7.940	7.090
2022-10-09 4:45	9297933	8.275	-120.113	7.941	891.960	1323.044	0.657	143.863	7.941	7.304
2022-10-09 5:00	9298833	8.322	-122.652	7.957	893.951	1325.379	0.658	45.355	7.957	7.276
2022-10-09 5:15	9299733	8.284	-120.604	7.971	894.707	1325.997	0.658	131.086	7.971	6.942
2022-10-09 5:30	9300633	8.299	-121.396	7.966	895.568	1327.454	0.659	154.809	7.966	7.306
2022-10-09 5:45	9301533	8.304	-121.684	7.952	895.781	1328.299	0.659	140.979	7.952	7.540
2022-10-09 6:00	9302433	8.340	-123.646	7.946	895.999	1328.860	0.660	76.474	7.946	7.672
2022-10-09 6:15	9303333	8.296	-121.214	7.914	894.596	1327.957	0.659	124.635	7.914	7.546
2022-10-09 6:30	9304233	8.294	-121.105	7.886	893.776	1327.814	0.659	173.042	7.886	7.683
2022-10-09 6:45	9305133	8.288	-120.759	7.867	892.815	1327.109	0.659	170.329	7.867	7.645

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-09 7:00	9306033	8.317	-122.337	7.859	892.677	1327.182	0.659	52.182	7.859	7.341
2022-10-09 7:15	9306933	8.275	-120.058	7.847	891.934	1326.522	0.658	177.678	7.847	7.155
2022-10-09 7:30	9307833	8.259	-119.221	7.841	891.758	1326.505	0.658	164.139	7.841	6.951
2022-10-09 7:45	9308733	8.245	-118.449	7.810	891.005	1326.557	0.658	129.796	7.810	6.755
2022-10-09 8:00	9309633	8.275	-120.068	7.805	891.925	1328.125	0.659	65.956	7.805	6.698
2022-10-09 8:15	9310533	8.234	-117.826	7.773	890.221	1326.763	0.658	147.623	7.773	***6.496***
2022-10-09 8:30	9311433	8.235	-117.838	7.745	889.310	1326.468	0.658	144.247	7.745	6.610
2022-10-09 8:45	9312333	8.233	-117.743	7.741	888.673	1325.687	0.658	136.526	7.741	6.621
2022-10-09 9:00	9313233	8.273	-119.908	7.750	889.792	1327.005	0.658	46.464	7.750	6.678
2022-10-09 9:15	9314133	8.240	-118.151	7.764	889.970	1326.728	0.658	145.893	7.764	6.722
2022-10-09 9:30	9315033	8.246	-118.458	7.784	891.348	1328.026	0.659	105.218	7.784	6.775
2022-10-09 9:45	9315933	8.254	-118.899	7.803	892.760	1329.412	0.660	130.568	7.803	7.029
2022-10-09 10:00	9316833	8.306	-121.725	7.823	895.198	1332.299	0.661	38.066	7.823	7.392
2022-10-09 10:15	9317733	8.270	-119.798	7.830	895.228	1332.083	0.661	125.667	7.830	7.530
2022-10-09 10:30	9318633	8.288	-120.776	7.822	895.747	1333.152	0.662	126.371	7.822	7.875
2022-10-09 10:45	9319533	8.291	-120.902	7.819	895.559	1332.999	0.662	123.357	7.819	7.791
2022-10-09 11:00	9320433	8.326	-122.824	7.831	896.495	1333.936	0.662	38.334	7.831	7.876
2022-10-09 11:15	9321333	8.287	-120.704	7.843	896.978	1334.188	0.662	135.087	7.843	7.757
2022-10-09 11:30	9322233	8.287	-120.707	7.847	897.627	1334.986	0.663	130.630	7.847	7.915
2022-10-09 11:45	9323133	8.300	-121.410	7.848	898.471	1336.230	0.663	156.894	7.848	7.996
2022-10-09 12:00	9324033	8.338	-123.453	7.843	899.684	1338.201	0.664	78.662	7.843	8.230
2022-10-09 12:15	9324933	8.299	-121.348	7.846	900.408	1339.190	0.665	122.686	7.846	8.066
2022-10-09 12:30	9325833	8.310	-121.958	7.855	902.053	1341.267	0.666	124.149	7.855	8.238
2022-10-09 12:45	9326733	8.316	-122.302	7.869	903.172	1342.409	0.667	122.451	7.869	8.220
2022-10-09 13:00	9327633	8.356	-124.481	7.884	903.882	1342.887	0.667	38.983	7.884	8.328
2022-10-09 13:15	9328533	8.316	-122.309	7.863	902.187	1341.187	0.666	109.200	7.863	8.333
2022-10-09 13:30	9329433	8.327	-122.871	7.773	898.923	1339.761	0.665	118.382	7.773	8.524
2022-10-09 13:45	9330333	8.342	-123.608	7.692	896.871	1339.781	0.665	125.090	7.692	8.794
2022-10-09 14:00	9331233	8.389	-126.159	7.657	894.911	1338.195	0.664	59.605	7.657	8.790
2022-10-09 14:15	9332133	8.345	-123.782	7.633	892.556	1335.576	0.663	120.066	7.633	9.003
2022-10-09 14:30	9333033	8.348	-123.940	7.650	891.268	1333.026	0.661	128.955	7.650	8.758
2022-10-09 14:45	9333933	8.353	-124.240	7.692	891.232	1331.342	0.660	128.929	7.692	8.797
2022-10-09 15:00	9334833	8.389	-126.214	7.735	892.415	1331.485	0.661	40.201	7.735	8.864
2022-10-09 15:15	9335733	8.360	-124.671	7.791	894.623	1332.656	0.661	140.366	7.791	9.208
2022-10-09 15:30	9336633	8.366	-125.000	7.830	895.765	1332.871	0.662	128.741	7.830	9.167
2022-10-09 15:45	9337533	8.356	-124.495	7.890	896.354	1331.477	0.661	142.354	7.890	9.220
2022-10-09 16:00	9338433	8.398	-126.774	7.989	897.351	1329.230	0.660	42.393	7.989	9.175
2022-10-09 16:15	9339333	8.354	-124.426	8.064	897.309	1326.365	0.659	122.871	8.064	9.439
2022-10-09 16:30	9340233	8.350	-124.264	8.172	898.888	1324.645	0.658	132.764	8.172	9.368
2022-10-09 16:45	9341133	8.338	-123.672	8.274	901.025	1323.988	0.658	113.475	8.274	9.195
2022-10-09 17:00	9342033	8.372	-125.587	8.397	903.719	1323.398	0.658	40.171	8.397	9.110
2022-10-09 17:15	9342933	8.335	-123.606	8.472	904.498	1321.766	0.657	118.709	8.472	9.490
2022-10-09 17:30	9343833	8.327	-123.188	8.526	905.566	1321.334	0.657	134.920	8.526	9.200
2022-10-09 17:45	9344733	8.320	-122.817	8.614	907.518	1320.946	0.657	118.980	8.614	8.978

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-09 18:00	9345633	8.375	-125.878	8.707	909.648	1320.637	0.657	43.918	8.707	9.070
2022-10-09 18:15	9346533	8.348	-124.419	8.753	908.948	1317.936	0.656	118.324	8.753	9.400
2022-10-09 18:30	9347433	8.345	-124.297	8.783	908.669	1316.437	0.655	131.268	8.783	9.296
2022-10-09 18:45	9348333	8.333	-123.639	8.786	909.039	1316.859	0.655	103.683	8.786	9.147
2022-10-09 19:00	9349233	8.350	-124.552	8.790	909.915	1317.972	0.656	42.870	8.790	8.707
2022-10-09 19:15	9350133	8.318	-122.786	8.792	909.073	1316.697	0.655	119.787	8.792	8.873
2022-10-09 19:30	9351034	8.312	-122.490	8.810	909.712	1316.963	0.655	83.290	8.810	8.660
2022-10-09 19:45	9351934	8.305	-122.108	8.826	909.449	1315.987	0.655	120.821	8.826	8.454
2022-10-09 20:00	9352834	8.340	-124.035	8.849	909.886	1315.770	0.655	39.032	8.849	8.352
2022-10-09 20:15	9353734	8.322	-123.057	8.871	908.970	1313.672	0.654	84.095	8.871	8.686
2022-10-09 20:30	9354634	8.328	-123.410	8.891	909.940	1314.326	0.654	105.072	8.891	8.770
2022-10-09 20:45	9355534	8.332	-123.625	8.898	911.299	1316.040	0.655	90.900	8.898	8.862
2022-10-09 21:00	9356434	8.371	-125.723	8.900	912.334	1317.484	0.656	37.476	8.900	8.756
2022-10-09 21:15	9357334	8.319	-122.933	8.901	911.534	1316.274	0.655	114.448	8.901	8.490
2022-10-09 21:30	9358234	8.296	-121.658	8.905	911.691	1316.373	0.655	102.566	8.905	8.200
2022-10-09 21:45	9359134	8.280	-120.771	8.909	911.425	1315.824	0.655	112.821	8.909	8.048
2022-10-09 22:00	9360034	8.325	-123.270	8.916	910.625	1314.405	0.654	37.806	8.916	7.950
2022-10-09 22:15	9360934	8.296	-121.653	8.920	908.269	1310.861	0.652	101.340	8.920	8.123
2022-10-09 22:30	9361834	8.282	-120.909	8.928	908.178	1310.462	0.652	116.753	8.928	8.028
2022-10-09 22:45	9362734	8.282	-120.938	8.935	908.948	1311.326	0.652	83.026	8.935	7.993
2022-10-09 23:00	9363634	8.313	-122.607	8.940	905.804	1306.583	0.650	36.747	8.940	8.072
2022-10-09 23:15	9364534	8.286	-121.126	8.944	904.775	1304.975	0.649	85.675	8.944	8.196
2022-10-09 23:30	9365434	8.281	-120.873	8.944	905.388	1305.841	0.650	112.767	8.944	8.049
2022-10-09 23:45	9366334	8.284	-121.024	8.944	905.399	1305.877	0.650	110.101	8.944	7.918
2022-10-10 0:00	9367234	8.323	-123.160	8.946	904.374	1304.329	0.649	46.311	8.946	7.877
2022-10-10 0:15	9368134	8.285	-121.062	8.941	902.135	1301.280	0.647	101.085	8.941	7.903
2022-10-10 0:30	9369034	8.274	-120.497	8.937	901.898	1301.074	0.647	98.841	8.937	7.769
2022-10-10 0:45	9369934	8.262	-119.801	8.933	901.720	1300.974	0.647	98.626	8.933	7.549
2022-10-10 1:00	9370834	8.299	-121.834	8.930	900.207	1298.871	0.646	37.479	8.930	7.382
2022-10-10 1:15	9371734	8.274	-120.459	8.926	899.562	1298.098	0.646	84.368	8.926	7.522
2022-10-10 1:30	9372634	8.266	-120.015	8.924	899.031	1297.405	0.645	79.461	8.924	7.363
2022-10-10 1:45	9373534	8.259	-119.648	8.923	898.964	1297.327	0.645	79.642	8.923	7.140
2022-10-10 2:00	9374434	8.293	-121.520	8.924	899.513	1298.113	0.646	34.213	8.924	7.025
2022-10-10 2:15	9375334	8.262	-119.834	8.911	896.972	1294.894	0.644	86.922	8.911	7.184
2022-10-10 2:30	9376234	8.248	-119.028	8.904	896.059	1293.807	0.643	82.986	8.904	7.005
2022-10-10 2:45	9377134	8.234	-118.310	8.898	896.095	1294.091	0.643	68.994	8.898	6.879
2022-10-10 3:00	9378034	8.282	-120.916	8.894	896.805	1295.247	0.644	35.513	8.894	6.842
2022-10-10 3:15	9378934	8.262	-119.805	8.888	896.702	1295.341	0.644	96.550	8.888	7.111
2022-10-10 3:30	9379834	8.247	-118.983	8.884	896.527	1295.220	0.644	74.323	8.884	6.956
2022-10-10 3:45	9380734	8.248	-119.047	8.879	895.770	1294.313	0.643	75.719	8.879	7.026
2022-10-10 4:00	9381634	8.311	-122.464	8.832	894.344	1293.905	0.643	40.403	8.832	7.074
2022-10-10 4:15	9382534	8.286	-121.067	8.758	892.616	1294.054	0.643	94.986	8.758	7.682
2022-10-10 4:30	9383434	8.286	-121.062	8.723	894.164	1297.571	0.645	125.860	8.723	7.970
2022-10-10 4:45	9384334	8.286	-121.062	8.717	894.468	1298.215	0.645	100.562	8.717	7.975

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-10 5:00	9385234	8.317	-122.700	8.699	897.444	1303.182	0.648	35.913	8.699	7.956
2022-10-10 5:15	9386134	8.292	-121.348	8.700	897.105	1302.664	0.648	93.768	8.700	7.715
2022-10-10 5:30	9387034	8.287	-121.088	8.704	896.863	1302.183	0.647	125.321	8.704	7.475
2022-10-10 5:45	9387934	8.276	-120.480	8.704	896.180	1301.171	0.647	128.308	8.704	7.175
2022-10-10 6:00	9388834	8.303	-121.973	8.697	893.867	1298.060	0.645	36.407	8.697	7.045
2022-10-10 6:15	9389734	8.313	-122.476	8.656	882.698	1283.328	0.637	52.026	8.656	7.792
2022-10-10 6:30	9390634	8.334	-123.615	8.646	880.103	1279.900	0.636	106.167	8.646	8.529
2022-10-10 6:45	9391534	8.335	-123.663	8.652	880.236	1279.857	0.636	116.945	8.652	8.611
2022-10-10 7:00	9392434	8.344	-124.164	8.667	883.694	1284.350	0.638	36.905	8.667	8.256
2022-10-10 7:15	9393334	8.297	-121.627	8.674	882.761	1282.744	0.637	110.035	8.674	7.870
2022-10-10 7:30	9394234	8.291	-121.322	8.682	883.324	1283.290	0.637	61.974	8.682	7.742
2022-10-10 7:45	9395134	8.289	-121.207	8.695	885.098	1285.411	0.639	123.474	8.695	7.508
2022-10-10 8:00	9396034	8.326	-123.205	8.710	886.034	1286.225	0.639	40.714	8.710	7.569
2022-10-10 8:15	9396934	8.306	-122.125	8.722	888.598	1289.514	0.641	112.022	8.722	7.817
2022-10-10 8:30	9397834	8.317	-122.728	8.716	886.934	1287.332	0.640	90.527	8.716	7.946
2022-10-10 8:45	9398734	8.311	-122.409	8.726	888.111	1288.690	0.640	83.807	8.726	7.933
2022-10-10 9:00	9399634	8.341	-124.059	8.737	890.922	1292.370	0.642	39.798	8.737	7.785
2022-10-10 9:15	9400534	8.305	-122.068	8.752	891.415	1292.526	0.642	95.516	8.752	7.666
2022-10-10 9:30	9401434	8.303	-121.989	8.765	893.531	1295.130	0.644	78.643	8.765	7.497
2022-10-10 9:45	9402334	8.298	-121.696	8.775	892.328	1293.023	0.643	67.551	8.775	7.393
2022-10-10 10:00	9403234	8.332	-123.546	8.787	891.039	1290.738	0.641	44.862	8.787	7.274
2022-10-10 10:15	9404134	8.291	-121.346	8.795	890.041	1288.997	0.641	74.646	8.795	7.303
2022-10-10 10:30	9405034	8.293	-121.439	8.802	888.914	1287.115	0.640	85.938	8.802	7.329
2022-10-10 10:45	9405934	8.291	-121.355	8.801	887.237	1284.729	0.638	72.847	8.801	7.257
2022-10-10 11:00	9406834	8.313	-122.545	8.799	882.622	1278.130	0.635	36.075	8.799	6.989
2022-10-10 11:15	9407734	8.354	-124.757	8.832	873.605	1263.916	0.628	79.035	8.832	8.465
2022-10-10 11:30	9408634	8.376	-125.973	8.877	867.643	1253.724	0.622	85.910	8.877	8.978
2022-10-10 11:45	9409534	8.363	-125.327	8.894	867.141	1252.399	0.622	64.618	8.894	8.630
2022-10-10 12:00	9410434	8.394	-127.015	8.960	869.499	1253.542	0.623	40.840	8.960	8.438
2022-10-10 12:15	9411334	8.379	-126.183	8.980	863.414	1244.068	0.618	68.947	8.980	9.155
2022-10-10 12:30	9412234	8.365	-125.444	9.003	864.534	1244.896	0.618	71.716	9.003	8.830
2022-10-10 12:45	9413134	8.342	-124.226	9.036	870.057	1251.705	0.622	82.360	9.036	8.593
2022-10-10 13:00	9414034	8.367	-125.587	9.060	874.028	1256.596	0.624	36.647	9.060	8.399
2022-10-10 13:15	9414934	8.338	-124.021	9.083	873.086	1254.449	0.623	74.553	9.083	8.466
2022-10-10 13:30	9415834	8.361	-125.272	9.136	879.176	1261.366	0.627	67.844	9.136	8.487
2022-10-10 13:45	9416734	8.385	-126.641	9.184	885.657	1269.002	0.631	67.083	9.184	9.402
2022-10-10 14:00	9417634	8.422	-128.653	9.190	885.067	1267.952	0.630	41.745	9.190	9.250
2022-10-10 14:15	9418534	8.388	-126.808	9.202	883.981	1265.987	0.629	86.645	9.202	9.134
2022-10-10 14:30	9419434	8.416	-128.365	9.267	876.394	1252.875	0.623	55.197	9.267	9.590
2022-10-10 14:45	9420334	8.411	-128.090	9.298	863.148	1232.898	0.612	90.698	9.298	9.673
2022-10-10 15:00	9421234	8.427	-128.939	9.290	870.493	1243.670	0.618	44.082	9.290	9.145
2022-10-10 15:15	9422134	8.391	-127.015	9.301	870.517	1243.322	0.618	93.524	9.301	9.133
2022-10-10 15:30	9423034	8.399	-127.428	9.304	874.248	1248.558	0.620	81.349	9.304	9.007
2022-10-10 15:45	9423934	8.394	-127.177	9.288	873.319	1247.777	0.620	70.444	9.288	9.030

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-10 16:00	9424834	8.421	-128.627	9.301	874.471	1248.976	0.621	49.189	9.301	8.913
2022-10-10 16:15	9425734	8.378	-126.302	9.307	873.388	1247.214	0.620	93.830	9.307	8.631
2022-10-10 16:30	9426634	8.369	-125.802	9.331	873.589	1246.683	0.620	75.613	9.331	8.399
2022-10-10 16:45	9427534	8.360	-125.325	9.359	873.948	1246.256	0.619	62.630	9.359	8.205
2022-10-10 17:00	9428434	8.386	-126.798	9.388	875.831	1247.954	0.620	35.824	9.388	8.012
2022-10-10 17:15	9429334	8.365	-125.635	9.393	875.207	1246.911	0.620	86.287	9.393	8.329
2022-10-10 17:30	9430234	8.353	-124.984	9.400	874.449	1245.574	0.619	77.969	9.400	8.187
2022-10-10 17:45	9431134	8.344	-124.485	9.420	874.771	1245.348	0.619	138.951	9.420	8.341
2022-10-10 18:00	9432034	8.391	-127.056	9.418	874.502	1245.032	0.619	53.133	9.418	8.570
2022-10-10 18:15	9432934	8.373	-126.064	9.383	872.073	1242.772	0.618	91.926	9.383	8.754
2022-10-10 18:30	9433834	8.369	-125.840	9.366	871.238	1242.152	0.617	67.202	9.366	8.768
2022-10-10 18:45	9434734	8.368	-125.751	9.359	870.429	1241.257	0.617	69.684	9.359	8.865
2022-10-10 19:00	9435634	8.412	-128.179	9.360	870.374	1241.124	0.617	38.188	9.360	8.818
2022-10-10 19:15	9436534	8.387	-126.832	9.352	869.840	1240.652	0.616	80.706	9.352	8.671
2022-10-10 19:30	9437434	8.380	-126.412	9.338	869.276	1240.293	0.616	61.755	9.338	8.861
2022-10-10 19:45	9438334	8.387	-126.803	9.304	869.035	1241.123	0.617	66.591	9.304	8.910
2022-10-10 20:00	9439234	8.452	-130.291	9.235	871.166	1246.510	0.619	48.470	9.235	8.844
2022-10-10 20:15	9440134	8.407	-127.800	9.173	870.517	1247.676	0.620	85.727	9.173	9.043
2022-10-10 20:30	9441034	8.399	-127.351	9.127	870.137	1248.716	0.620	88.073	9.127	8.875
2022-10-10 20:45	9441934	8.379	-126.274	9.119	871.363	1250.745	0.621	89.021	9.119	8.675
2022-10-10 21:00	9442834	8.406	-127.738	9.124	871.891	1251.344	0.622	37.109	9.124	8.476
2022-10-10 21:15	9443734	8.364	-125.463	9.113	870.279	1249.392	0.621	72.388	9.113	8.279
2022-10-10 21:30	9444634	8.352	-124.784	9.085	868.545	1247.865	0.620	73.939	9.085	8.139
2022-10-10 21:45	9445534	8.343	-124.266	9.029	866.291	1246.528	0.619	93.803	9.029	7.973
2022-10-10 22:00	9446434	8.384	-126.429	8.905	859.347	1240.774	0.616	50.158	8.905	7.808
2022-10-10 22:15	9447334	8.352	-124.695	8.829	855.966	1238.504	0.615	83.612	8.829	7.981
2022-10-10 22:30	9448234	8.339	-123.959	8.807	856.873	1240.555	0.616	86.391	8.807	7.958
2022-10-10 22:45	9449134	8.334	-123.713	8.811	856.637	1240.086	0.615	83.138	8.811	7.804
2022-10-10 23:00	9450034	8.350	-124.578	8.801	856.534	1240.286	0.615	36.067	8.801	7.377
2022-10-10 23:15	9450934	8.318	-122.795	8.776	854.301	1237.911	0.614	87.208	8.776	7.376
2022-10-10 23:30	9451835	8.310	-122.330	8.709	852.075	1236.960	0.614	93.837	8.709	7.625
2022-10-10 23:45	9452735	8.302	-121.865	8.627	849.774	1236.453	0.613	137.756	8.627	7.230
2022-10-11 0:00	9453635	8.329	-123.293	8.587	848.126	1235.430	0.613	54.383	8.587	6.599
2022-10-11 0:15	9454535	8.296	-121.527	8.527	845.133	1233.124	0.611	94.886	8.527	6.812
2022-10-11 0:30	9455435	8.294	-121.343	8.458	843.705	1233.392	0.611	89.546	8.458	6.837
2022-10-11 0:45	9456335	8.302	-121.775	8.426	843.103	1233.632	0.611	90.119	8.426	6.879
2022-10-11 1:00	9457235	8.328	-123.188	8.421	842.338	1232.681	0.611	41.334	8.421	6.745
2022-10-11 1:15	9458135	8.294	-121.360	8.409	841.720	1232.201	0.611	71.629	8.409	6.852
2022-10-11 1:30	9459035	8.314	-122.385	8.309	841.418	1235.195	0.612	91.722	8.309	6.891
2022-10-11 1:45	9459935	8.320	-122.716	8.272	840.487	1235.123	0.612	99.857	8.272	7.210
2022-10-11 2:00	9460835	8.380	-125.921	8.197	838.749	1235.153	0.612	57.310	8.197	7.518
2022-10-11 2:15	9461735	8.348	-124.130	8.121	841.105	1241.294	0.615	96.905	8.121	7.942
2022-10-11 2:30	9462635	8.346	-124.009	8.109	842.455	1243.678	0.616	76.193	8.109	7.902
2022-10-11 2:45	9463535	8.337	-123.534	8.090	841.951	1243.625	0.616	65.136	8.090	7.778

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV) (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)
2022-10-11 3:00	9464435	8.373	-125.458	8.065	838.353	1239.186	0.614	36.448	8.065	7.688
2022-10-11 3:15	9465335	8.340	-123.672	8.023	836.357	1237.709	0.613	65.196	8.023	7.884
2022-10-11 3:30	9466235	8.337	-123.501	8.001	835.216	1236.780	0.612	72.064	8.001	7.721
2022-10-11 3:45	9467135	8.337	-123.506	7.996	834.450	1235.822	0.612	68.535	7.996	7.624
2022-10-11 4:00	9468035	8.381	-125.868	7.987	834.470	1236.158	0.612	48.682	7.987	7.521
2022-10-11 4:15	9468935	8.344	-123.870	7.980	833.525	1235.011	0.611	83.555	7.980	7.446
2022-10-11 4:30	9469835	8.336	-123.434	7.978	833.138	1234.508	0.611	90.649	7.978	7.320
2022-10-11 4:45	9470735	8.323	-122.716	7.970	832.634	1234.042	0.611	106.880	7.970	7.243
2022-10-11 5:00	9471635	8.355	-124.435	7.946	831.760	1233.586	0.610	38.533	7.946	7.078
2022-10-11 5:15	9472535	8.320	-122.547	7.889	829.782	1232.646	0.610	73.772	7.889	7.060
2022-10-11 5:30	9473435	8.309	-121.903	7.851	828.622	1232.236	0.610	69.916	7.851	7.019
2022-10-11 5:45	9474335	8.300	-121.400	7.808	827.543	1232.131	0.609	61.711	7.808	7.005
2022-10-11 6:00	9475235	8.343	-123.734	7.786	826.930	1231.978	0.609	49.206	7.786	6.858
2022-10-11 6:15	9476135	8.309	-121.877	7.738	823.768	1228.955	0.608	106.815	7.738	6.802
2022-10-11 6:30	9477035	8.301	-121.410	7.710	823.049	1228.871	0.608	71.381	7.710	***6.435***
2022-10-11 6:45	9477935	8.294	-121.055	7.686	822.165	1228.395	0.607	80.847	7.686	6.648
2022-10-11 7:00	9478835	8.326	-122.726	7.662	818.323	1223.501	0.605	38.627	7.662	6.599
2022-10-11 7:15	9479735	8.299	-121.293	7.637	818.347	1224.385	0.605	87.013	7.637	6.662
2022-10-11 7:30	9480635	8.295	-121.033	7.620	818.087	1224.620	0.605	66.695	7.620	***6.493***
2022-10-11 7:45	9481535	8.294	-120.943	7.544	816.810	1225.364	0.605	71.018	7.544	6.654
2022-10-11 8:00	9482435	8.362	-124.593	7.451	814.609	1225.305	0.605	59.637	7.451	6.930
2022-10-11 8:15	9483335	8.332	-122.983	7.407	813.341	1224.947	0.605	116.007	7.407	7.225
2022-10-11 8:30	9484235	8.335	-123.136	7.406	812.914	1224.354	0.605	134.323	7.406	7.097
2022-10-11 8:45	9485135	8.320	-122.297	7.393	811.967	1223.374	0.604	125.832	7.393	6.930
2022-10-11 9:00	9486035	8.362	-124.581	7.376	810.396	1221.598	0.603	39.031	7.376	6.893
2022-10-11 9:15	9486935	8.336	-123.165	7.358	809.747	1221.255	0.603	105.569	7.358	7.097
2022-10-11 9:30	9487835	8.355	-124.149	7.317	808.217	1220.402	0.603	97.086	7.317	7.209
2022-10-11 9:45	9488735	8.365	-124.660	7.266	806.032	1218.880	0.602	104.144	7.266	7.232
2022-10-11 10:00	9489635	8.438	-128.591	7.194	805.416	1220.511	0.602	50.274	7.194	7.458
2022-10-11 10:15	9490535	8.393	-126.159	7.138	805.341	1222.360	0.603	124.640	7.138	8.002
2022-10-11 10:30	9491435	8.401	-126.564	7.081	805.456	1224.567	0.604	105.963	7.081	8.280
2022-10-11 10:45	9492335	8.402	-126.610	7.044	806.394	1227.315	0.606	107.407	7.044	8.241
2022-10-11 11:00	9493235	8.443	-128.801	7.002	808.448	1231.936	0.608	40.808	7.002	8.107
2022-10-11 11:15	9494135	8.404	-126.653	6.943	813.546	1241.828	0.613	84.790	6.943	8.257
2022-10-11 11:30	9495035	8.409	-126.927	6.925	812.823	1241.385	0.613	90.453	6.925	8.290
2022-10-11 11:45	9495935	8.392	-125.985	6.898	815.167	1245.938	0.615	105.988	6.898	8.335
2022-10-11 12:00	9496835	8.451	-129.130	6.880	809.033	1237.215	0.610	52.031	6.880	8.293
2022-10-11 12:15	9497735	8.402	-126.522	6.873	805.802	1232.541	0.608	103.774	6.873	8.340
2022-10-11 12:30	9498635	8.412	-127.027	6.866	805.436	1232.241	0.608	111.435	6.866	8.314
AEP Freshwater Aquatic Life*		**6.5-9.0^{pH}**	**NS**	**narrative**	**NS**	**NS**	**NS**	**narrative**	**NS**	**6.5^{DO}**

Notes:

TABLE C2

Downstream Water Quality Sonde Data

Mighty Peace Watershed Alliance

Beaverlodge River

Date and Time	Elapsed Time Seconds	Sensor: pH/ORP SN#: 723080 pH (pH)	Sensor: pH/ORP SN#: 723080 pH(mV)	Sensor: pH/ORP SN#: 723080 (mV)	Sensor: Cond SN#: 736508 Temperature (C)	Sensor: Cond SN#: 736508 Actual Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Specific Conductivity (µS/cm)	Sensor: Cond SN#: 736508 Salinity (PSU)	Sensor: Turb SN#: 737648 Turbidity (NTU)	Sensor: Internal SN#: 740848 Temperature (C)	Sensor: RDO SN#: 728799 Dissolved Oxygen (concentration) (mg/L)

DO - minimum long-term exposure guideline; see applicable guidelines for further details

pH - not to be altered by more than 0.5 units from background

narrative - see applicable guidelines for further details

NS - not specified

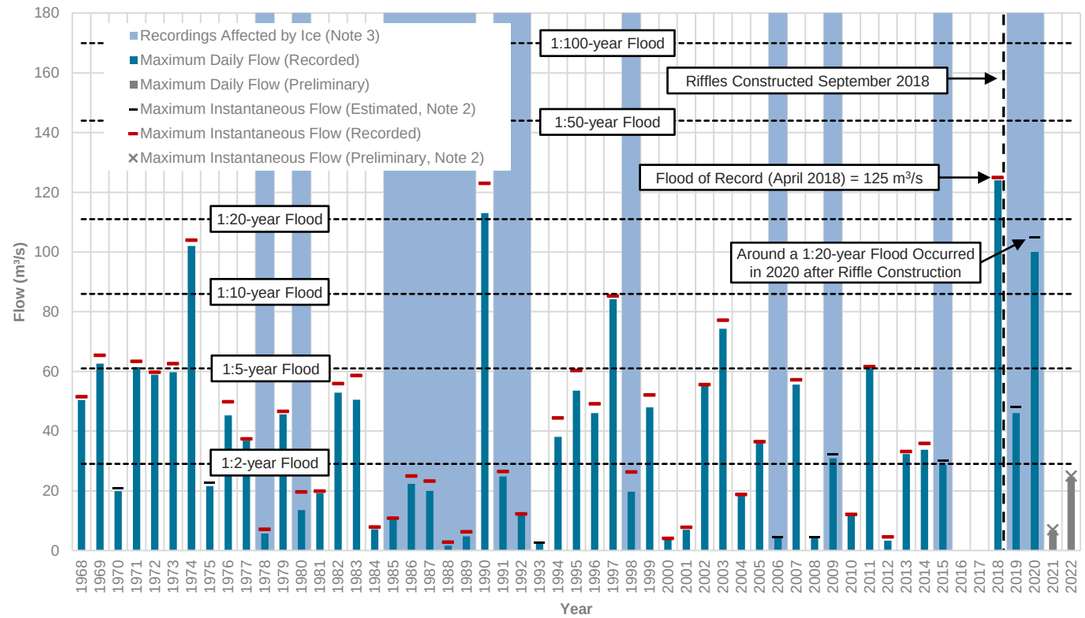
SO4 - guideline level is hardness dependent; hardness values greater than 250 mg/L need to be determined based on site water

* - *Environmental Quality Guidelines for Alberta Surface Waters* (AEP 2018)

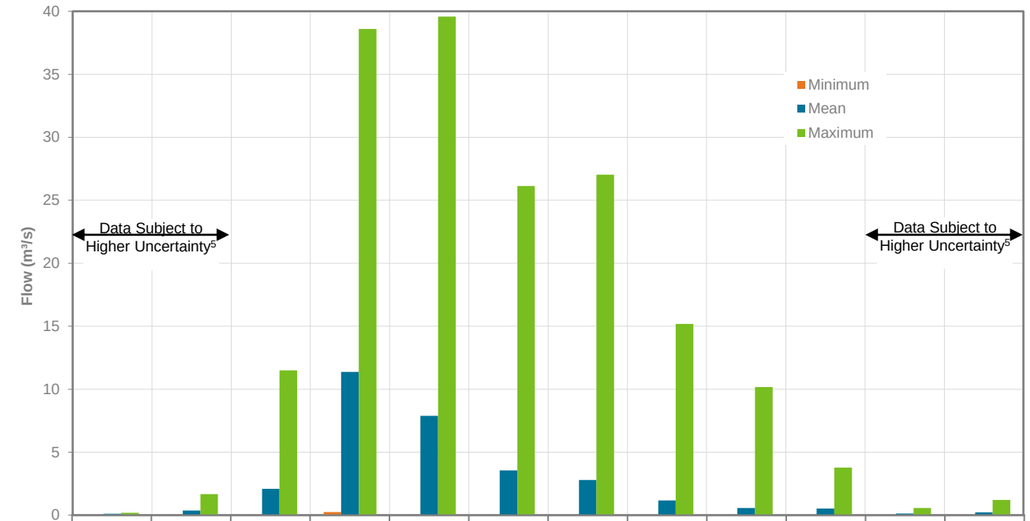
Italics - values do not meet applicable guidelines

APPENDIX D
Hydrologic Analysis Figures

Annual Maximum Daily Average and Instantaneous Flow History[1]

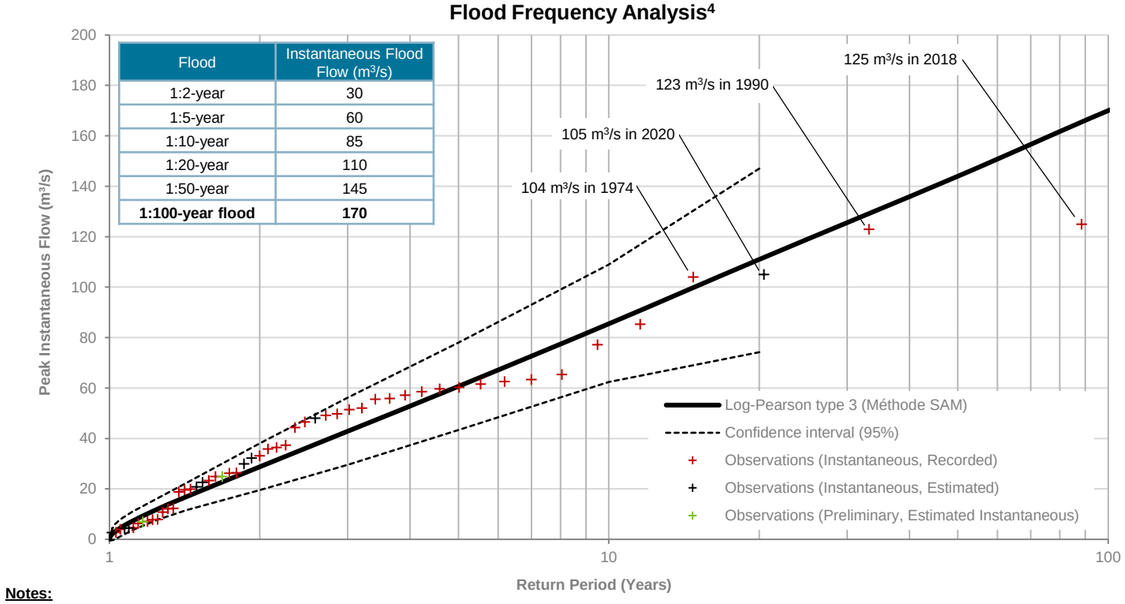


Monthly Flows[5]



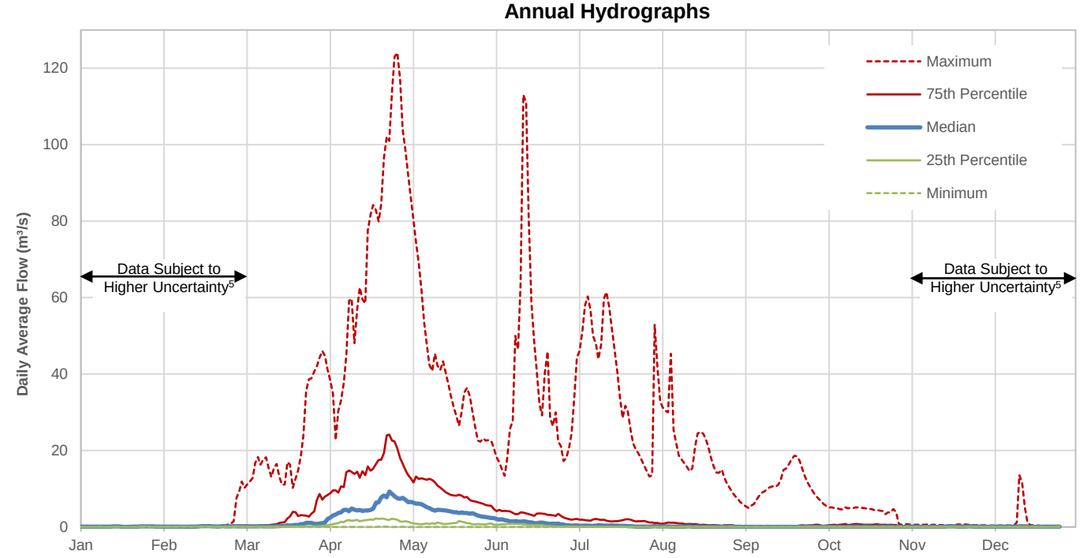
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min. Monthly[7] Flow	0.001	0.001	0.001	0.3	0.01	0.03	0.01	0.002	0.001	0.001	0.001	0.001
Mean Monthly[7] Flow	0.1	0.4	2.1	11.4	7.9	3.6	2.8	1.2	0.6	0.5	0.1	0.2
Max. Monthly[7] Flow	0.2	1.7	11.5	38.6	39.6	26.1	27.0	15.2	10.2	3.8	0.6	1.2

Flood Frequency Analysis[4]



Flood	Instantaneous Flood Flow (m³/s)
1:2-year	30
1:5-year	60
1:10-year	85
1:20-year	110
1:50-year	145
1:100-year flood	**170**

Annual Hydrographs



Notes:

1. Flow records are taken from Water Survey of Canada (WSC) hydrometric station Beaverlodge River near Beaverlodge (07GD001) which is located approximately 1,500 m downstream of the project site and has a gross drainage area of 1,610 km², and an effective drainage area of 1,510 km². The drainage area at site is 1,562 km². There are 53 years of daily flow data from 1968 to 2021 (51 years of published data and two years of preliminary data).
2. The annual maximum flow record consists of 53 years of daily flow data (51 years of published data and two years of preliminary data), and 53 years of instantaneous flow data (42 years of recorded data, nine years [17%], of estimated data, and two years [4%] of preliminary estimated data). When not available, maximum instantaneous flow is estimated from daily average flow by applying the best fitted ratio of maximum instantaneous to daily average flow (1.046).
3. The WSC corrects flow data that is affected by river ice and indicates which datapoints have been corrected. Years are highlighted as ice affected in the above plot when the reported maximum instantaneous flow is ice affected, or when the maximum instantaneous flow is estimated from an ice affected maximum daily flow. The maximum instantaneous flows for 15 years [28%] of the flow history are ice affected.
4. Flows from 2021 and 2022 are preliminary and have not been finalized by WSC. A check was completed to determine the effect of excluding the preliminary data in the frequency analysis. The check indicated there is negligible difference on the 1:100-year flood magnitude when the preliminary data is excluded.
5. The WSC station was operated continuously from 1979 to 1986 (seven years of continuous flow data) and seasonally (from about the beginning of March to the end of October) from 1968 to 1978 and 1987 to 2022 (46 years of seasonal data). All available data is shown, but the November to February data are subject to higher uncertainty because there is only seven years of data for these months.
6. Flooding typically occurs from April through July.
7. Monthly flow is the average of the daily flows within a month for a given year, averaged over all years.
8. Figure(s) must be used in conjunction with the attached report and is subject to the limitations and conditions stated in the report.

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Mighty Peace Watershed Alliance
Redwillow Watershed Restoration Project

Hydrologic Analysis

Date:	Project:	Submitter:	Reviewer:
December 2022	2199-522	K. Seasons	K. Curtis

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Figure 1

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